Philips Consumer Electronics

Technical Service Data

Service and Quality
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Manual 7573
Model no.: 8P5431C
First Publish: 04-19-2004
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Scope Patterns

REFER TO SAFETY GUIDELINES

SAFETY NOTICE: ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

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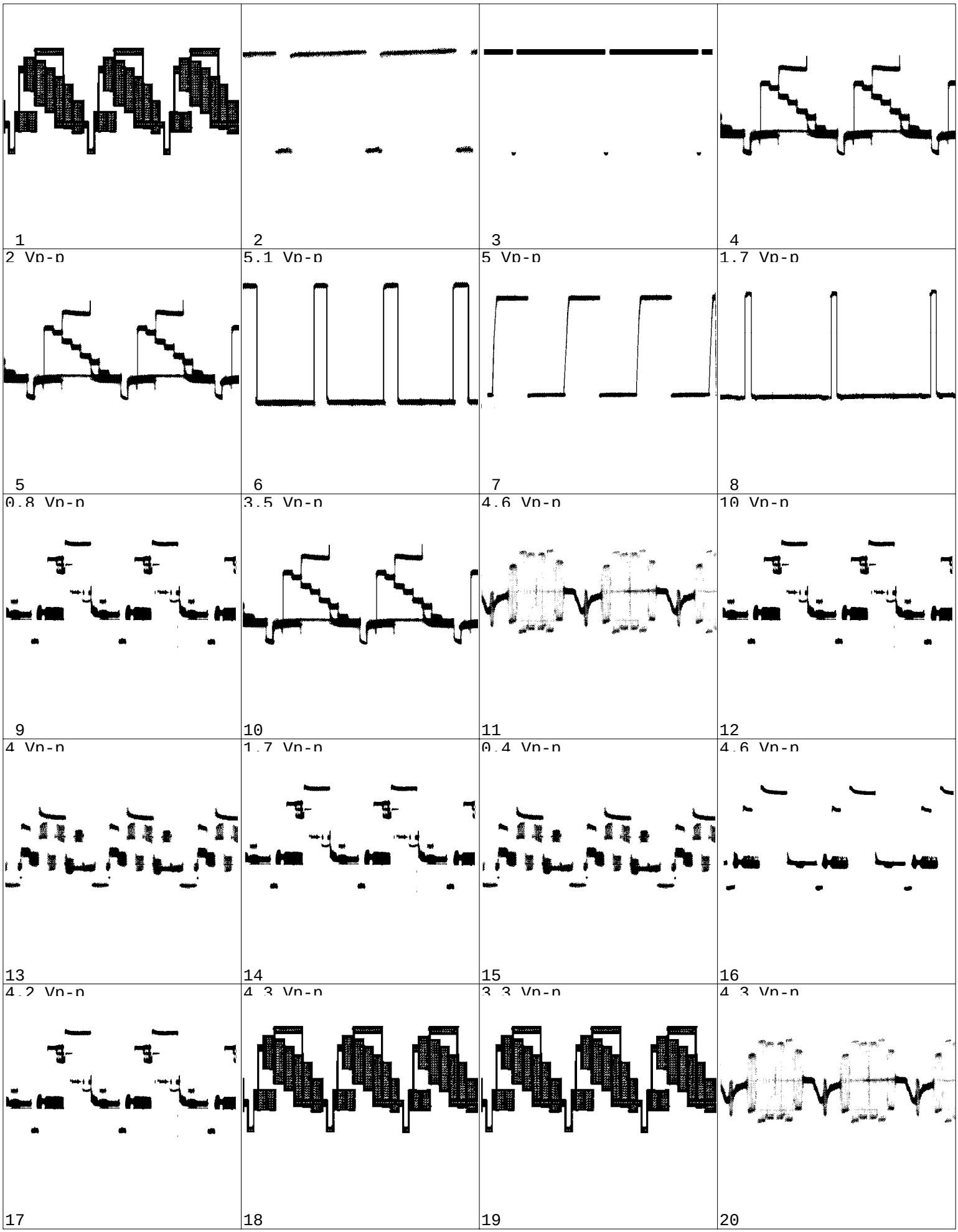
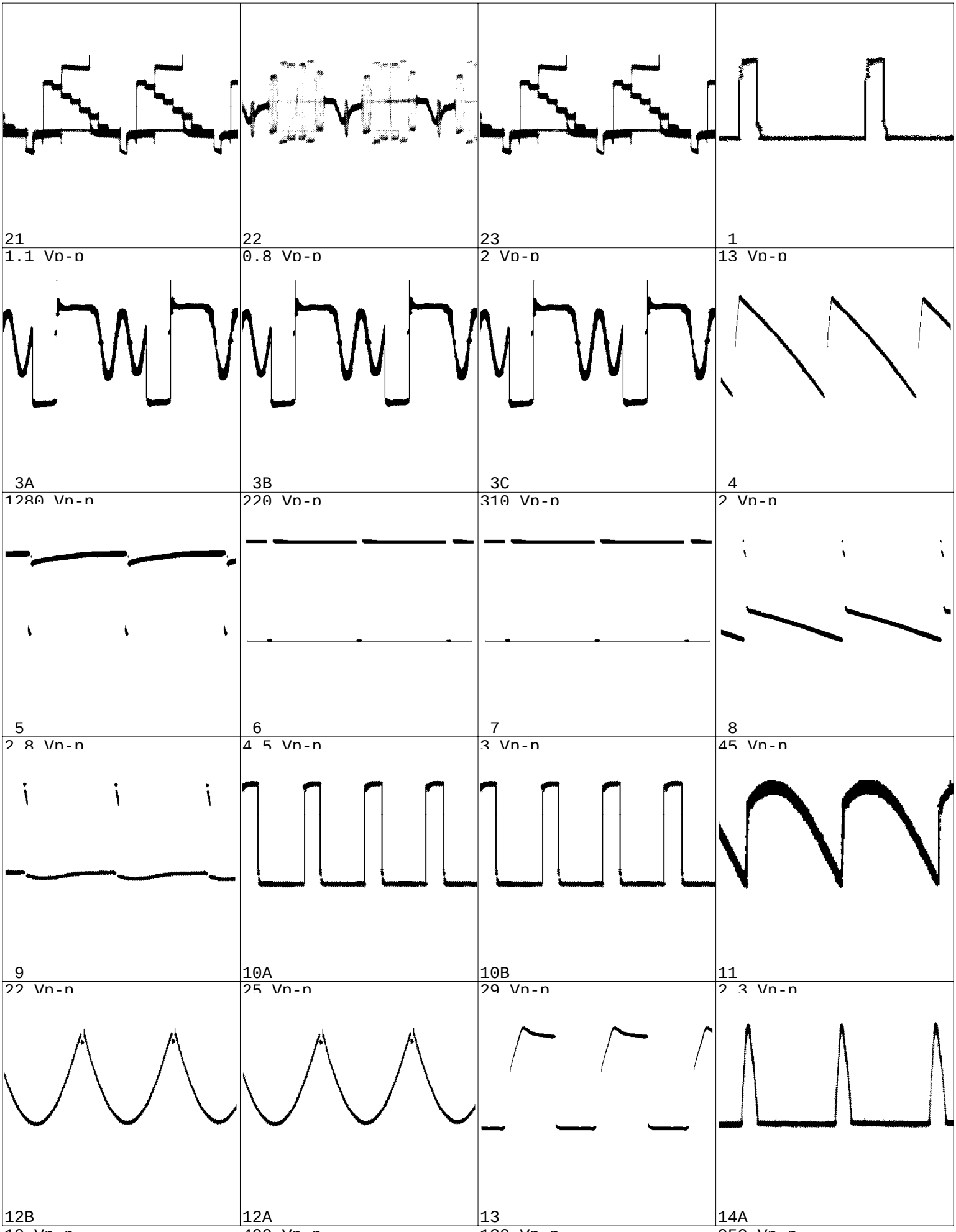
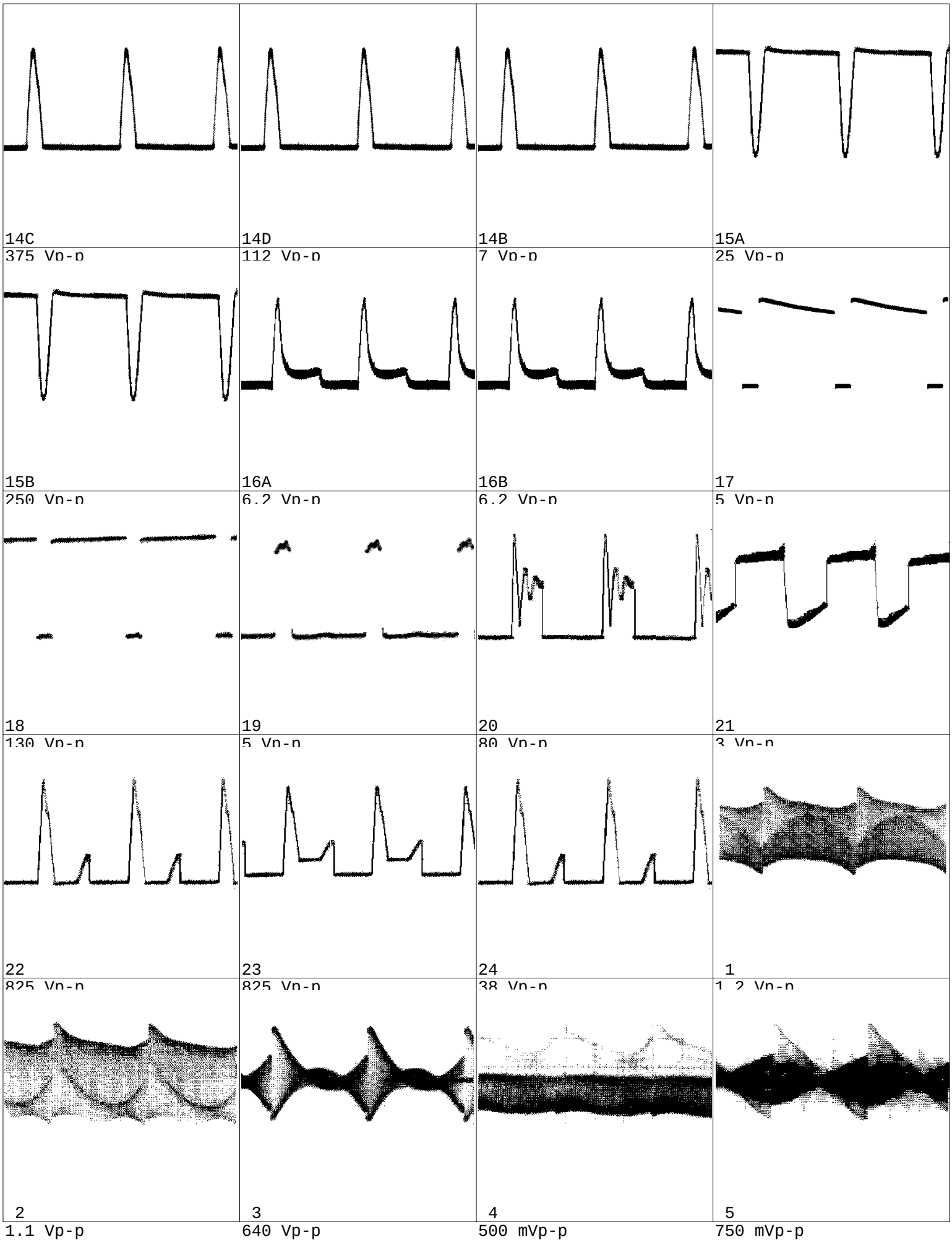
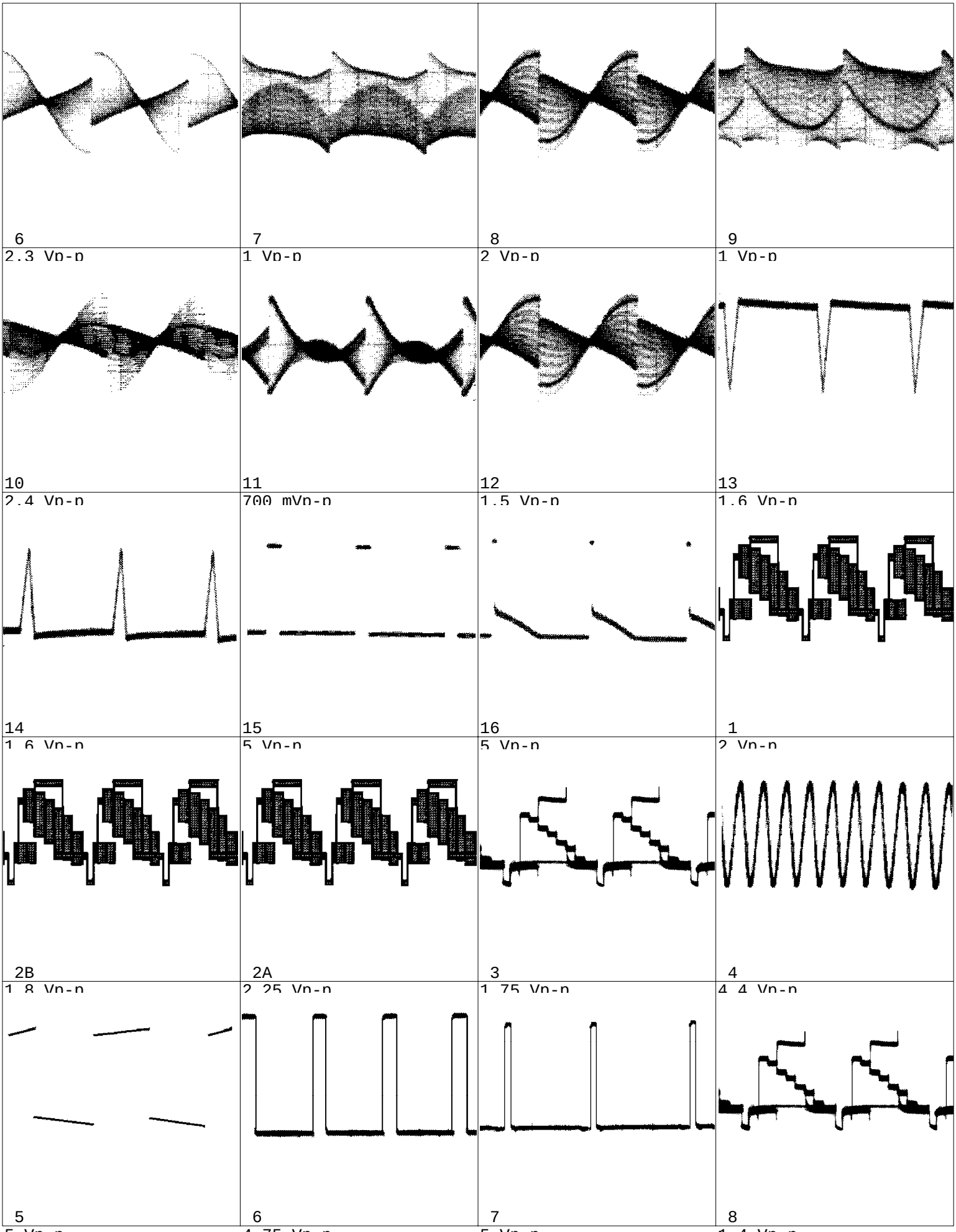
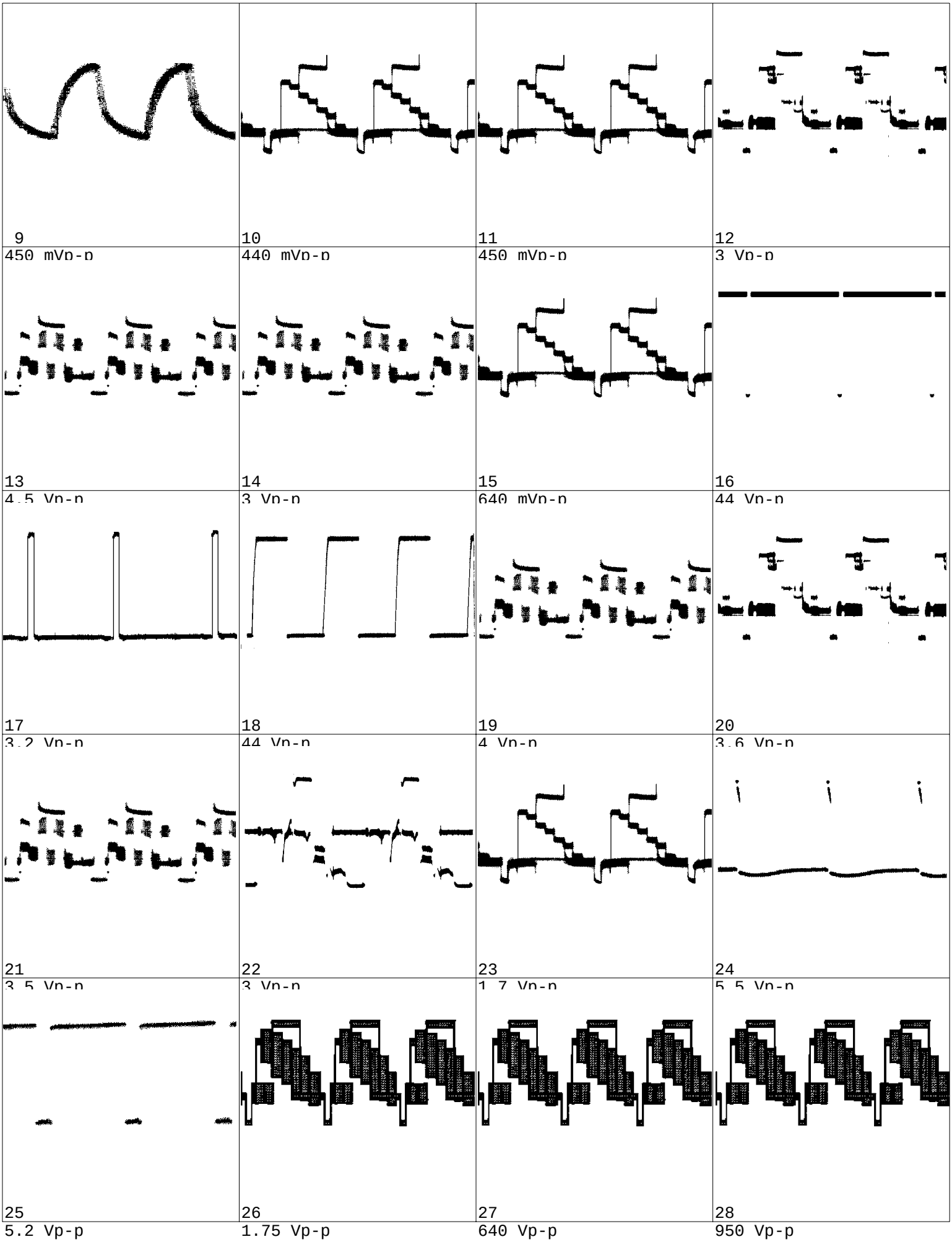

1
2
3
4
2 Vp-p
5
5.1 Vp-p
6
5 Vp-p
7
1.7 Vp-p
8
0.8 Vp-p
9
3.5 Vp-p
10
4.6 Vp-p
11
10 Vp-p
12
4 Vp-p
13
1.7 Vp-p
14
0.4 Vp-p
15
4.6 Vp-p
16
4.2 Vp-p
17
4.3 Vp-p
18
3.3 Vp-p
19
4.3 Vp-p
20
4 Vp-p
20 usec
2.1 Vp-p
20 usec
1.5 Vp-p
20 usec
0.5 Vp-p
20 usec



10 Vp-p	400 Vp-p	130 Vp-p	950 Vp-p
5 msec	5 msec	20 usec	20 usec


14C
14D
14B
15A
375 Vp-p
112 Vp-p
7 Vp-p
25 Vp-p
15B
16A
16B
17
250 Vp-p
6.2 Vp-p
6.2 Vp-p
5 Vp-p
18
19
20
21
130 Vp-p
5 Vp-p
80 Vp-p
3 Vp-p
22
23
24
1
825 Vp-p
825 Vp-p
38 Vp-p
1.2 Vp-p
2
3
4
5
1.1 Vp-p
5 msec
640 Vp-p
5 msec
500 mVp-p
5 msec
750 mVp-p
5 msec


6
7
8
9
2.3 Vp-p
1 Vp-p
2 Vp-p
1 Vp-p
10
11
12
13
2.4 Vp-p
700 mVp-p
1.5 Vp-p
1.6 Vp-p
14
15
16
1
1.6 Vp-p
5 Vp-p
5 Vp-p
2 Vp-p
2B
2A
3
4
1.8 Vp-p
2.25 Vp-p
1.75 Vp-p
4.4 Vp-p
5
6
7
8
5 Vp-p
0.1usec
4.75 Vp-p
20 usec
5 Vp-p
5 msec
1.4 Vp-p
20 usec

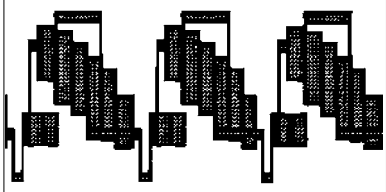
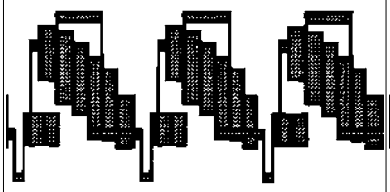
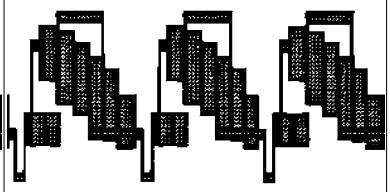
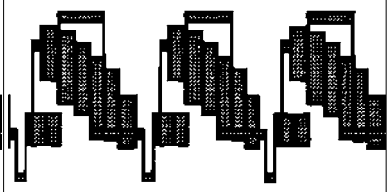
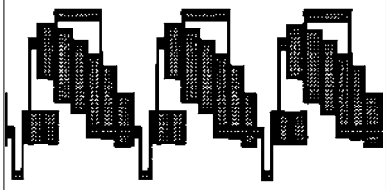
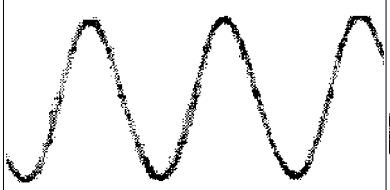
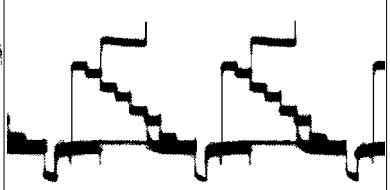
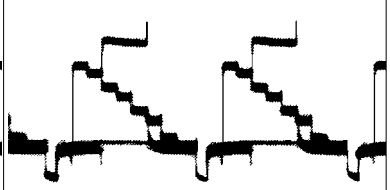
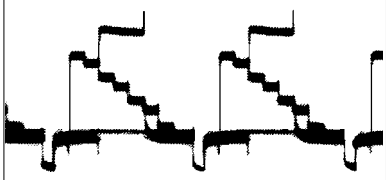


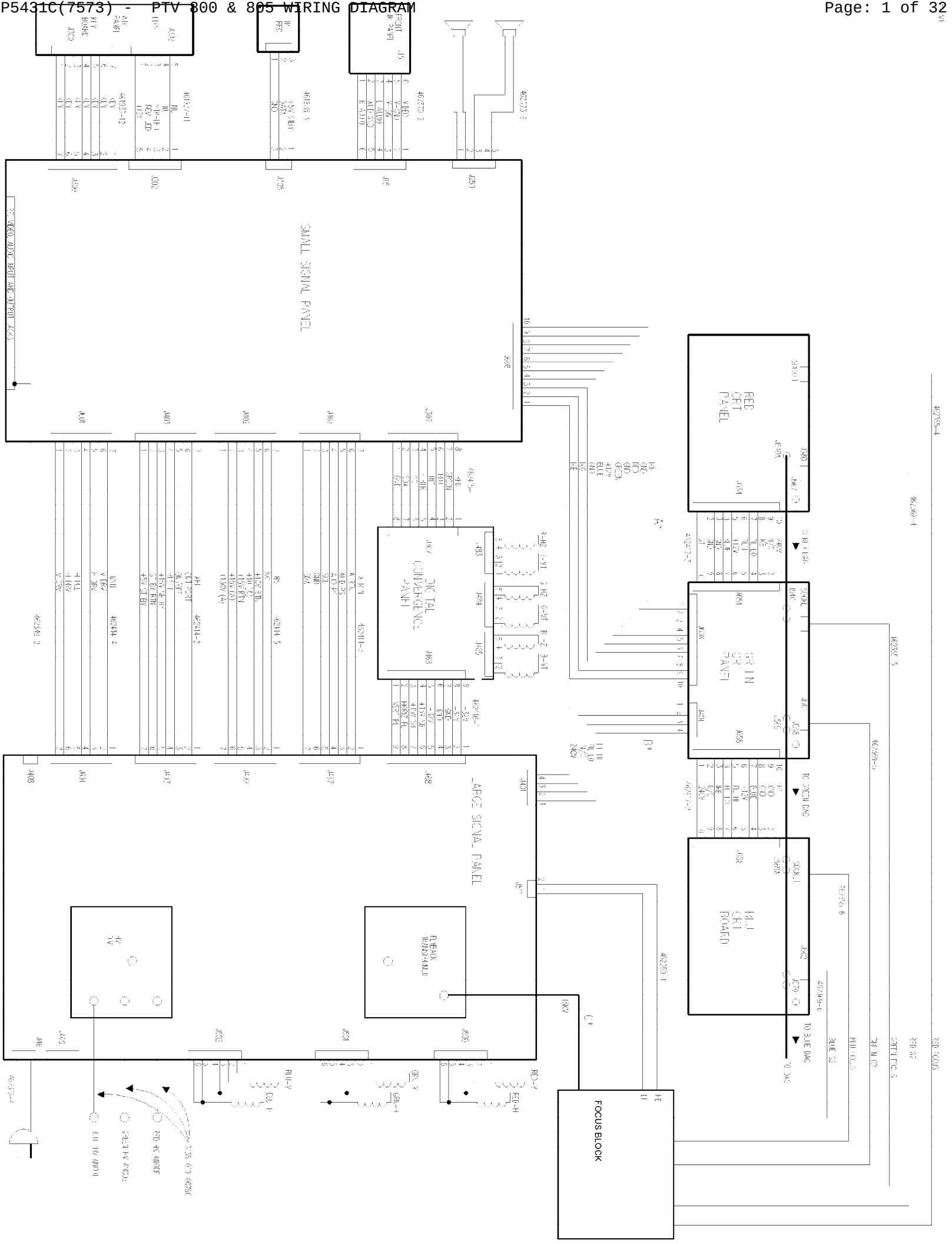
5.2 Vp-p
20 usec

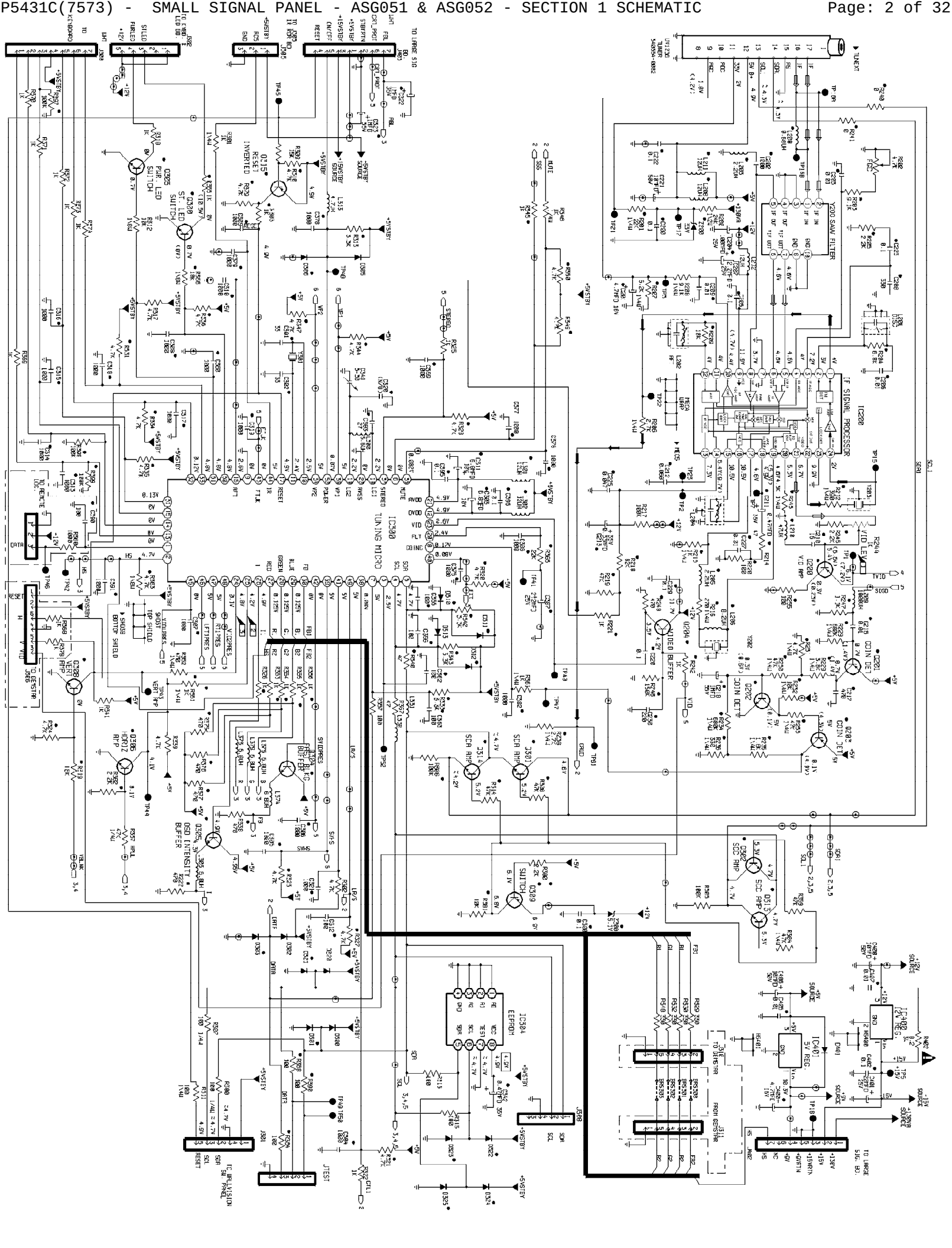
1.75 Vp-p
20 usec

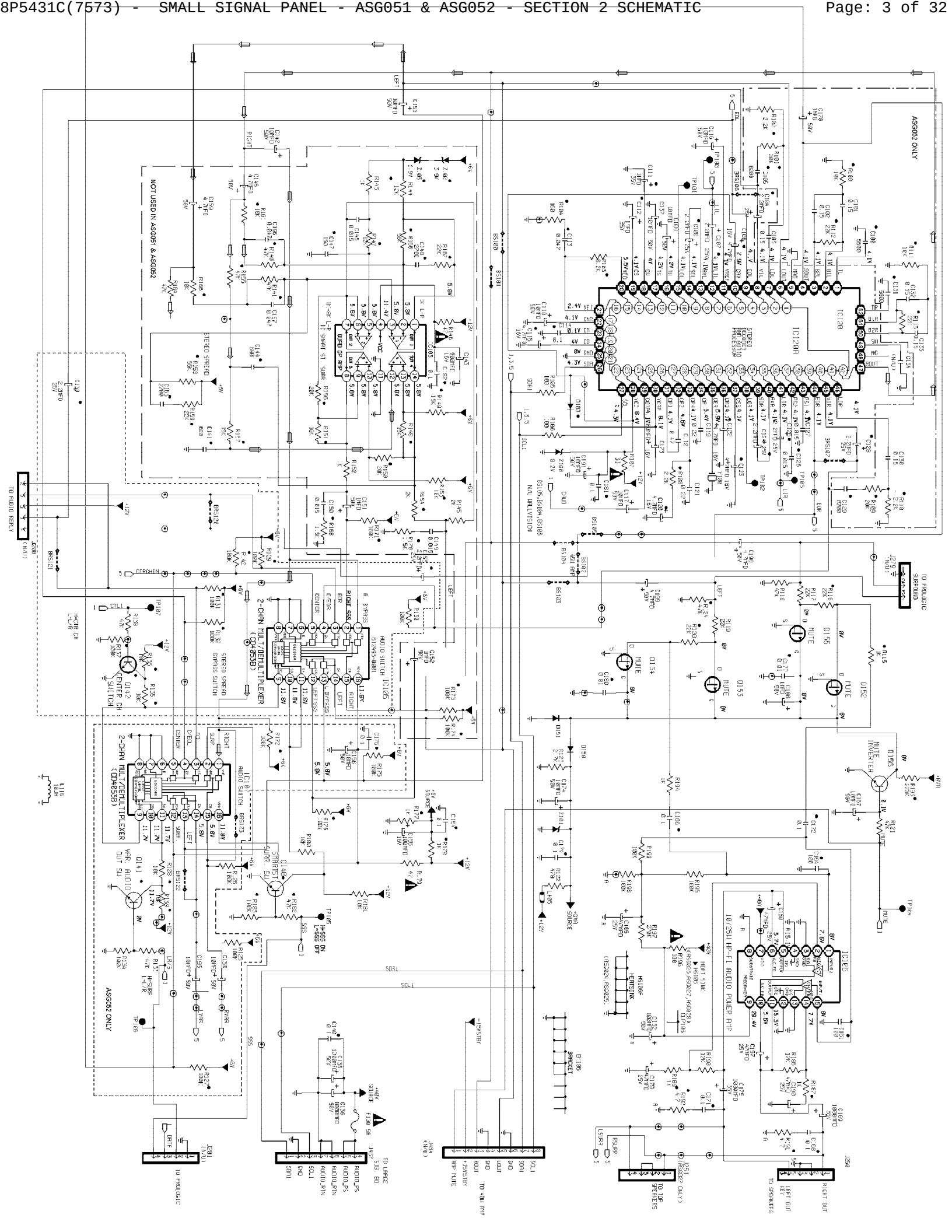
640 Vp-p
20 usec

950 Vp-p
20 usec

 29	 30	 31	 32A
1.8 Vp-p  32B	1.75 Vp-p  33	1.75 Vp-p  34A	1.2 Vp-p  34C
1.7 Vp-p  34B	1.2 Vp-p 0.1usec	0.8 Vp-p 20 usec	1.4 Vp-p 20 usec
1.4 Vp-p 20 usec			


SMALL SIGNAL PANEL
RED CRT PANEL
GRN CRT PANEL
BLU CRT BOARD
DIGITAL CONVERGENCE PANEL
FOCUS BLOCK
FEEDBACK
RED-H
GRN-H
BLU-H
RED-V
GRN-V
BLU-V


IC200
IF SIGNAL PROCESSOR
IC300
TUNING MICRO
IC304
EEPROM
IC400
12V REG.
IC401
5V REG.
TUNER
SAW FILTER
VID AMP
VIDEO BUFFER
SCART
SCL
SDA
RESET
+5VSTBY
+12V
+5V
+15V
-15V


ASG052 ONLY
NOT USED IN ASG051 & ASG052
2-CHAN MULTIPLEXER (CD4053B)
AUDIO SWITCH
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IC1120B
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IC1120CEL
IC1120CEM
IC1120CEN
IC1120CEP
IC1120CEQ
IC1120CER
IC1120CES
IC1120CET
IC1120CEU
IC1120CEV
IC1120CEW
IC1120CEX
IC1120CEY
IC1120CEZ
IC1120CFA
IC1120CFB
IC1120CFC
IC1120CFD
IC1120CFE
IC1120CFF
IC1120CFG
IC1120CFH
IC1120CFJ
IC1120CFK
IC1120CFL
IC1120CFM
IC1120CFN
IC1120CFP
IC1120CFQ
IC1120CFR
IC1120CFS
IC1120CFT
IC1120CFU
IC1120CFV
IC1120CFW
IC1120CFX
IC1120CFY
IC1120CFZ
IC1120CGA
IC1120CGB
IC1120CGC
IC1120CGD
IC1120CGE
IC1120CGF
IC1120CGG
IC1120CGH
IC1120CGJ
IC1120CGK
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IC1120CGQ
IC1120CGR
IC1120CGS
IC1120CGT
IC1120CGU
IC1120CGV
IC1120CGW
IC1120CGX
IC1120CGY
IC1120CGZ
IC1120CHA
IC1120CHB
IC1120CHC
IC1120CHD
IC1120CHE
IC1120CHF
IC1120CHG
IC1120CHH
IC1120CHJ
IC1120CHK
IC1120CHL
IC1120CHM
IC1120CHN
IC1120CHP
IC1120CHQ
IC1120CHR
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IC1120CJF
IC1120CJG
IC1120CJH
IC1120CJJ
IC1120CJK
IC1120CJL
IC1120CJM
IC1120CJN
IC1120CJP
IC1120CJQ
IC1120CJR
IC1120CJS
IC1120CJT
IC1120CJU
IC1120CJV
IC1120CJW
IC1120CJX
IC1120CJY
IC1120CJZ
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IC1120CKB
IC1120CKC
IC1120CKD
IC1120CKE
IC1120CKF
IC1120CKG
IC1120CKH
IC1120CKJ
IC1120CKK
IC1120CKL
IC1120CKM
IC1120CKN
IC1120CKP
IC1120CKQ
IC1120CKR
IC1120CKS
IC1120CKT
IC1120CKU
IC1120CKV
IC1120CKW
IC1120CKX
IC1120CKY
IC1120CKZ
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IC1120CLF
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IC1120CLJ
IC1120CLK
IC1120CLL
IC1120CLM
IC1120CLN
IC1120CLP
IC1120CLQ
IC1120CLR
IC1120CLS
IC1120CLT
IC1120CLU
IC1120CLV
IC1120CLW
IC1120CLX
IC1120CLY
IC1120CLZ
IC1120CMA
IC1120CMB
IC1120CMC
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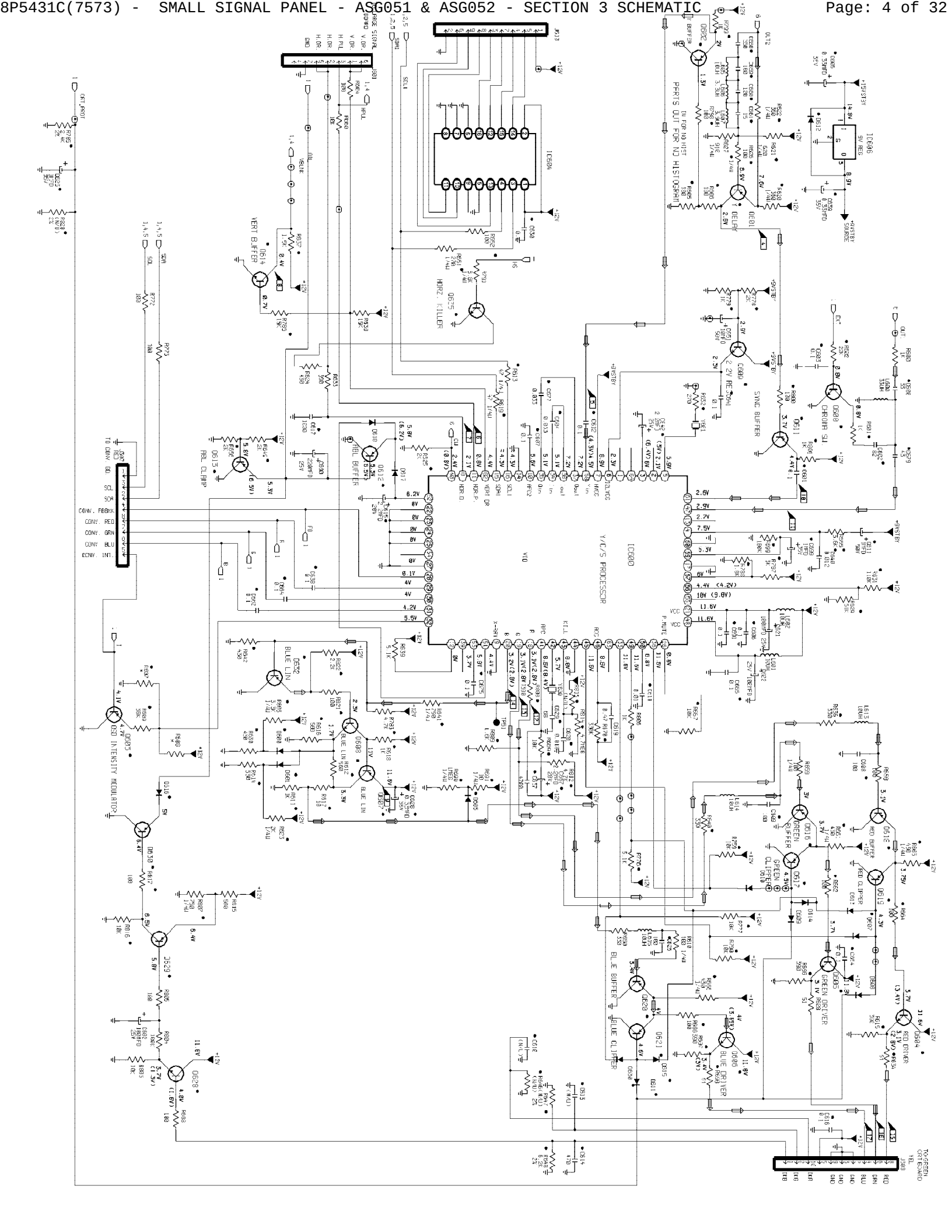
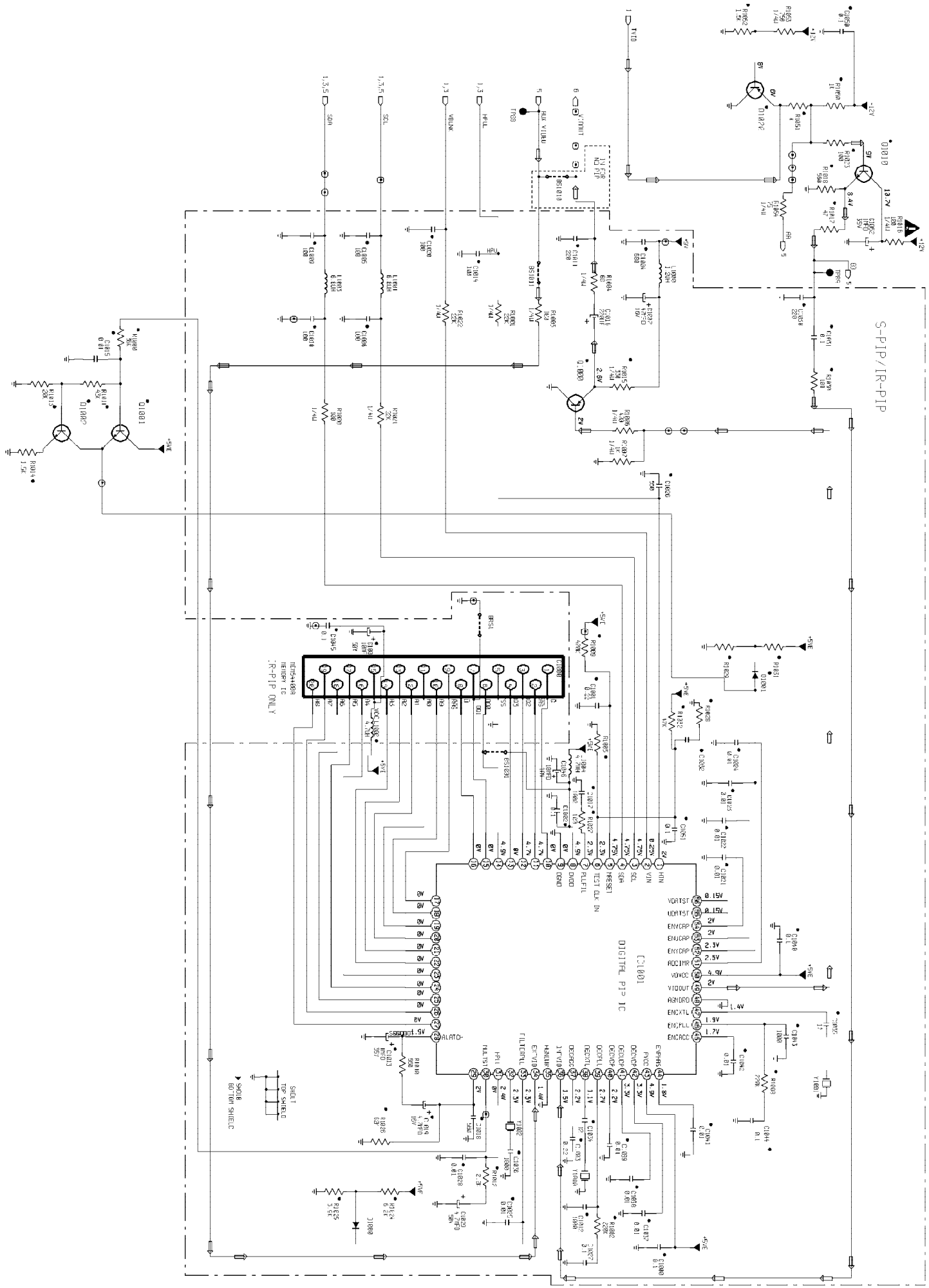
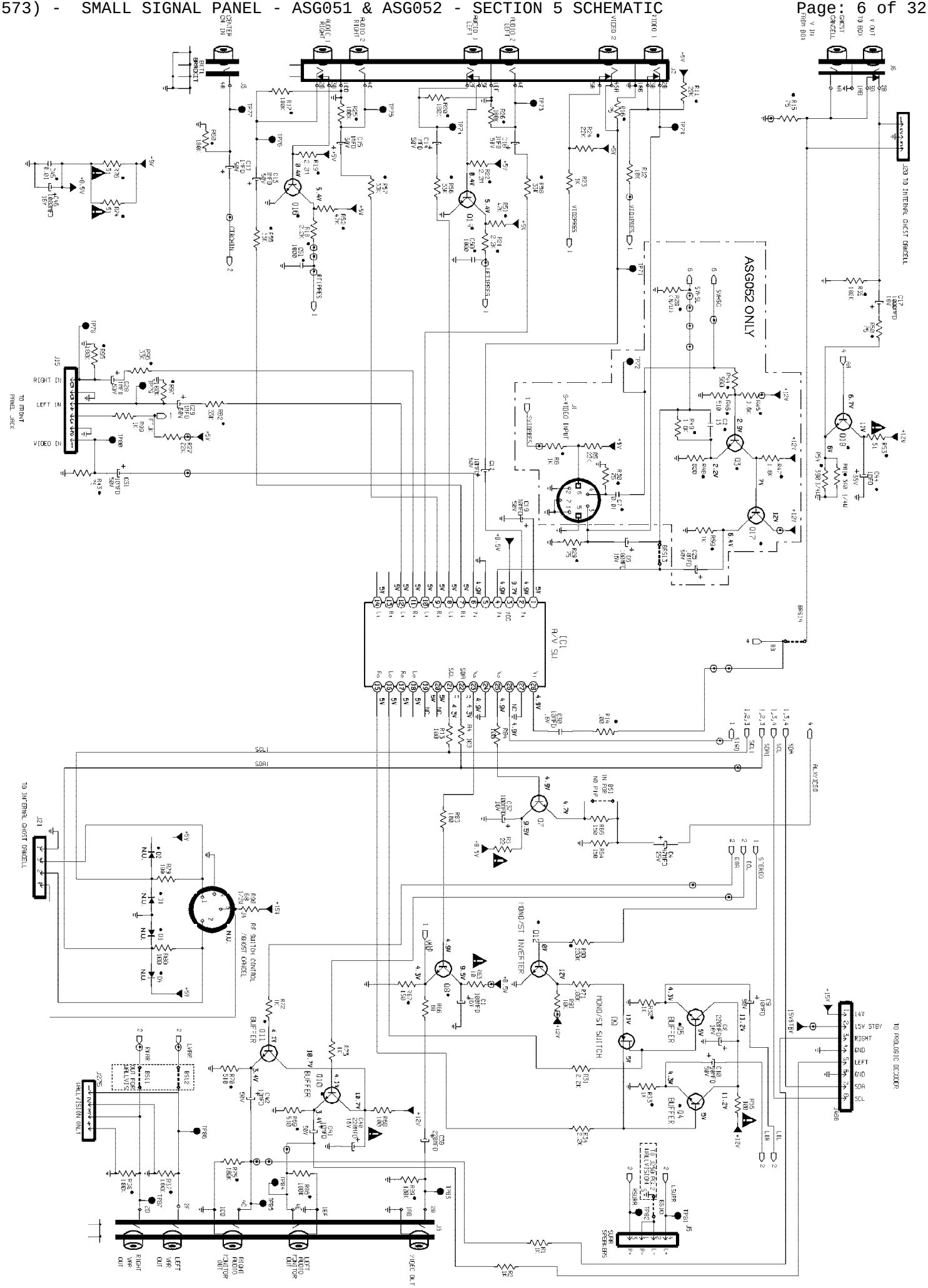
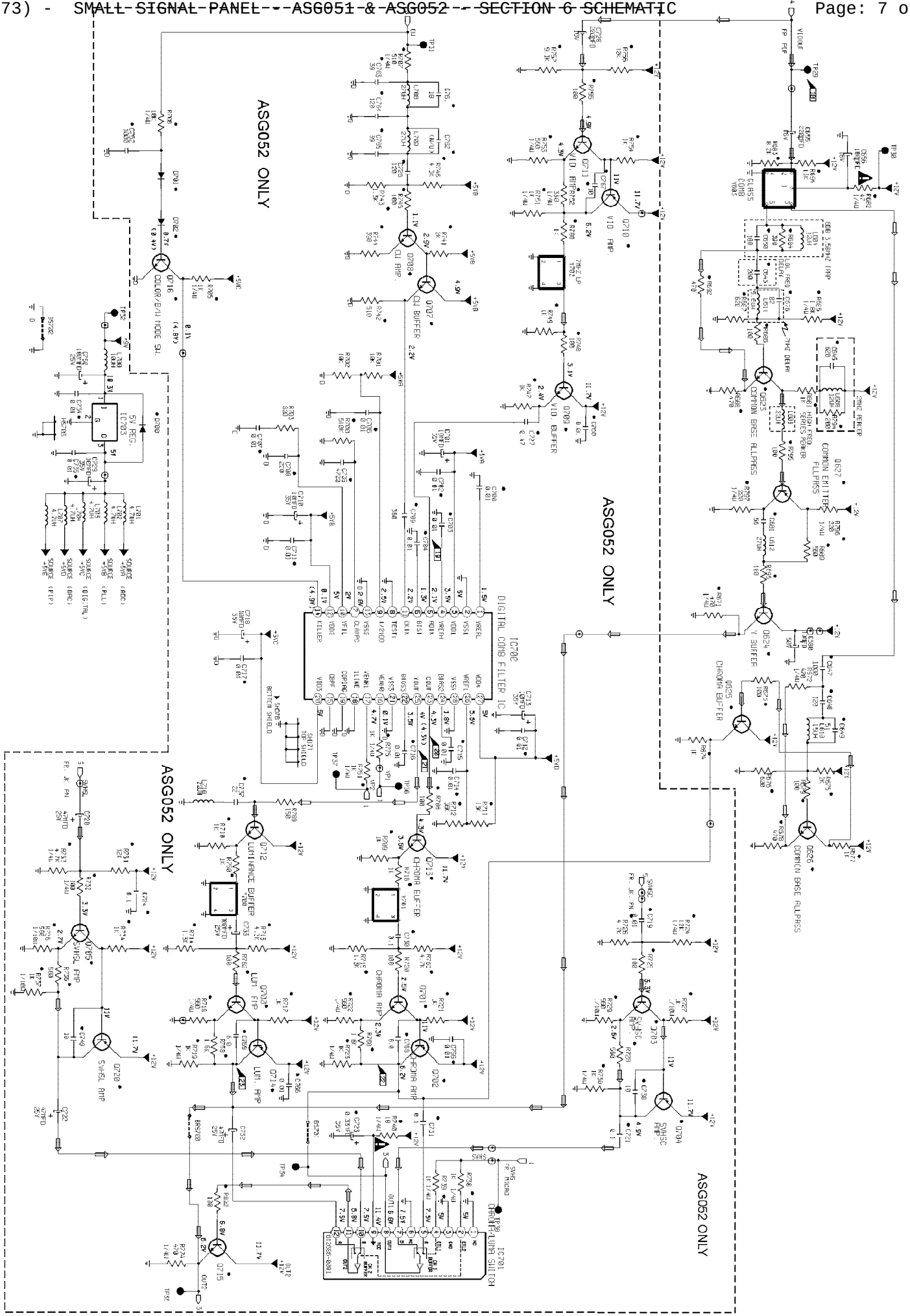
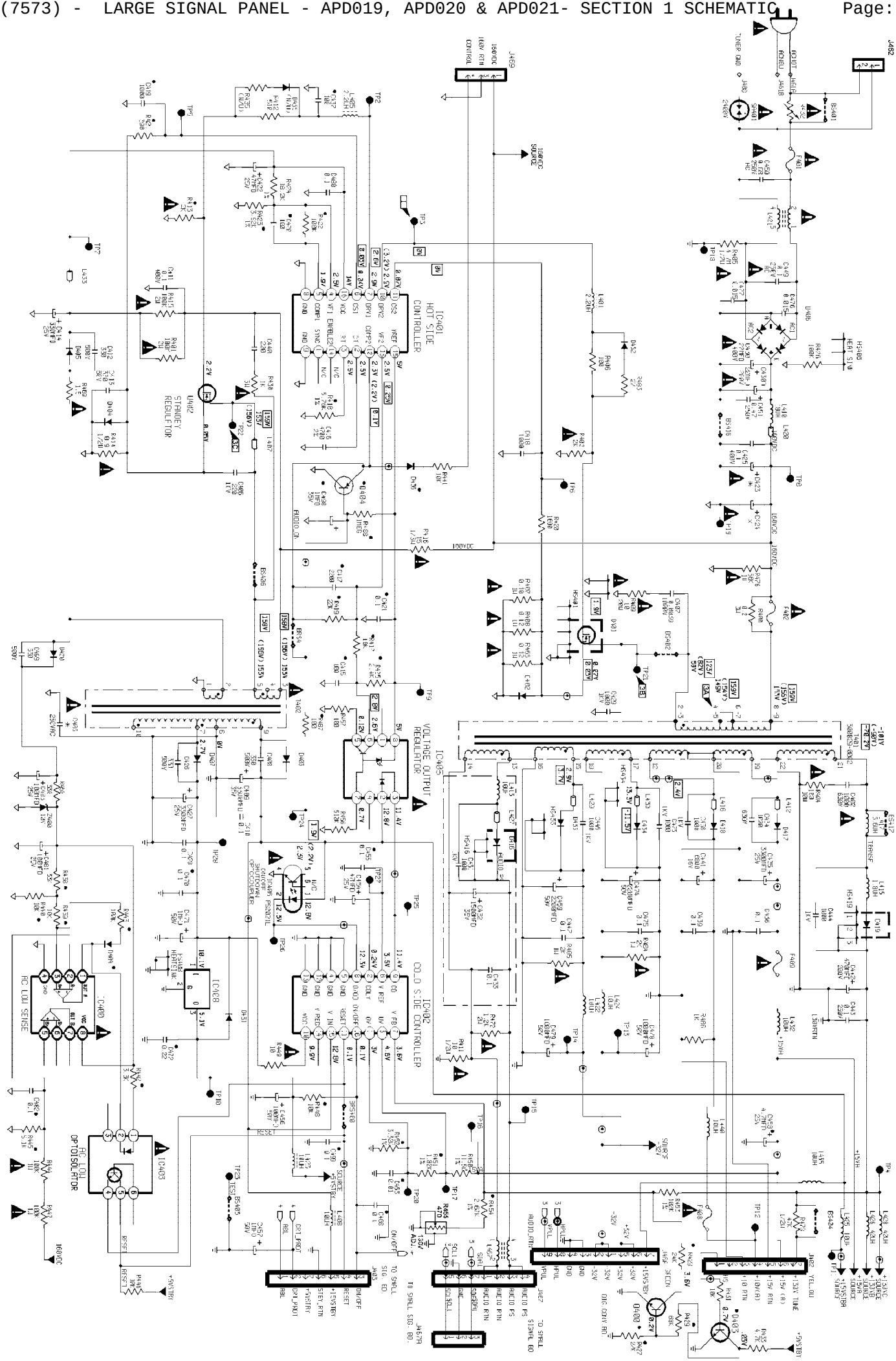
IC1120CMF
IC1120CMG
IC1120CMH
IC1120CMJ

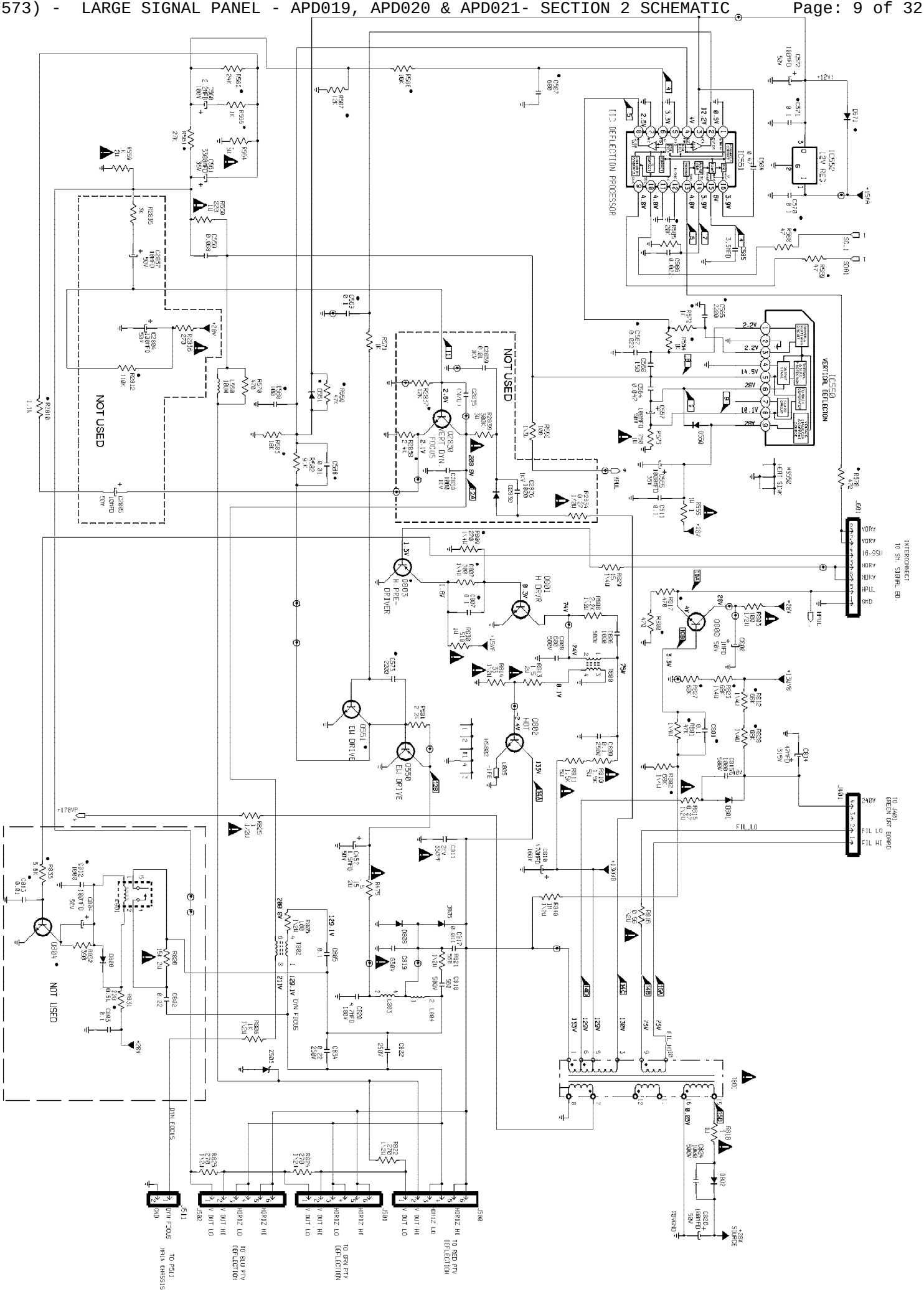

PARTS OUT FOR NO HISTOGRAM
IC6000
Y/C/S PROCESSOR
VERT BUFFER
VERT KILLER
HORZ. KILLER
SYNC BUFFER
CHROMA SLI
RED BUFFER
RED CLIPPER
RED DRIVER
GREEN BUFFER
GREEN CLIPPER
GREEN DRIVER
BLUE BUFFER
BLUE CLIPPER
BLUE DRIVER
BLUE LIN
OSD INTENSITY MODULATOR
CONV. FBBACK
CONV. RED
CONV. GRN
CONV. BLU
CONV. INT.
TO CONV. BD
TO GREEN CRT BOARD

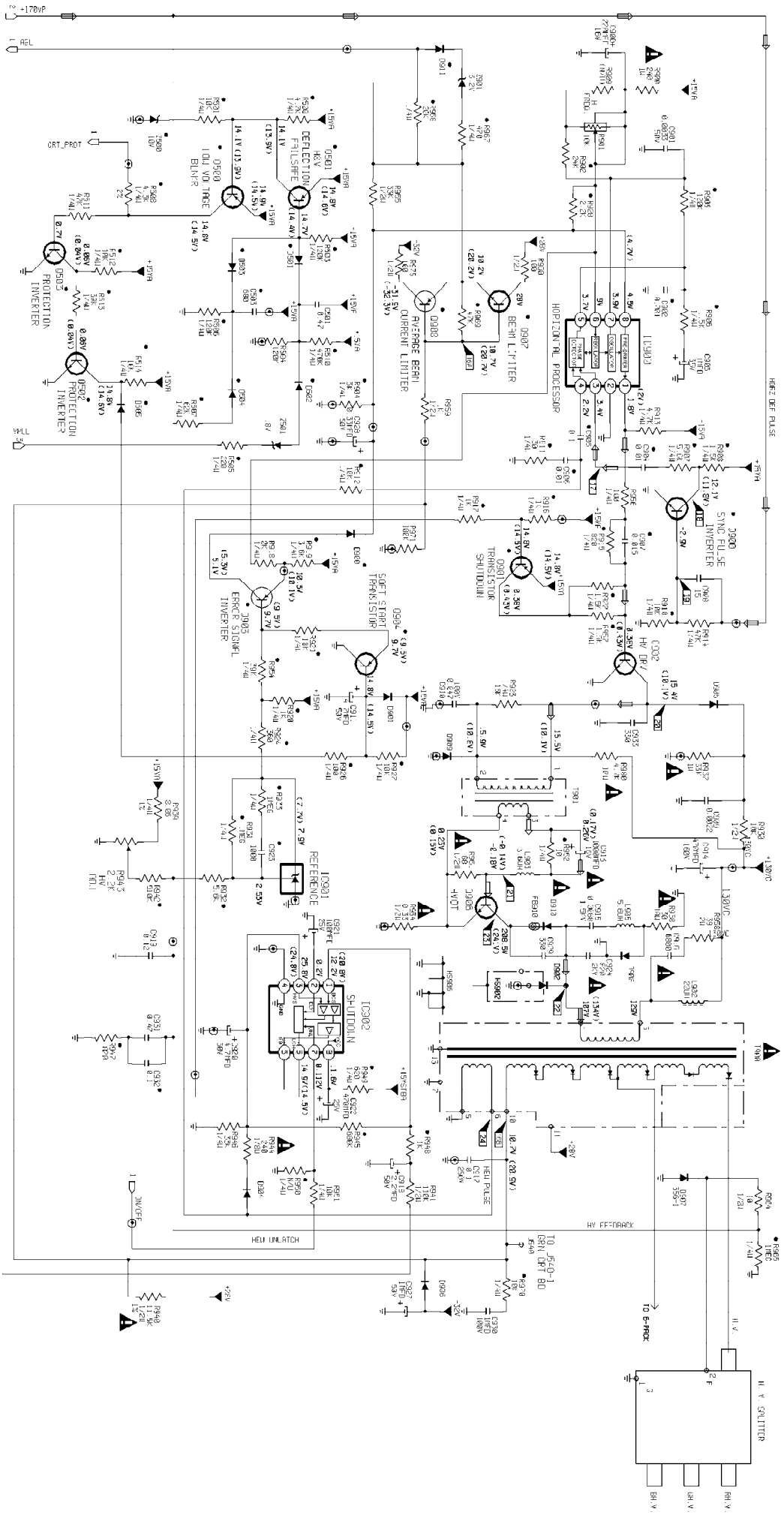

S-PIP/IR-PIP
IR-PIP ONLY
DIGITAL PIP IC
D1001
D1010
D1001
D1000
SHIELD TOP SHIELD
SHIELD BOTTOM SHIELD

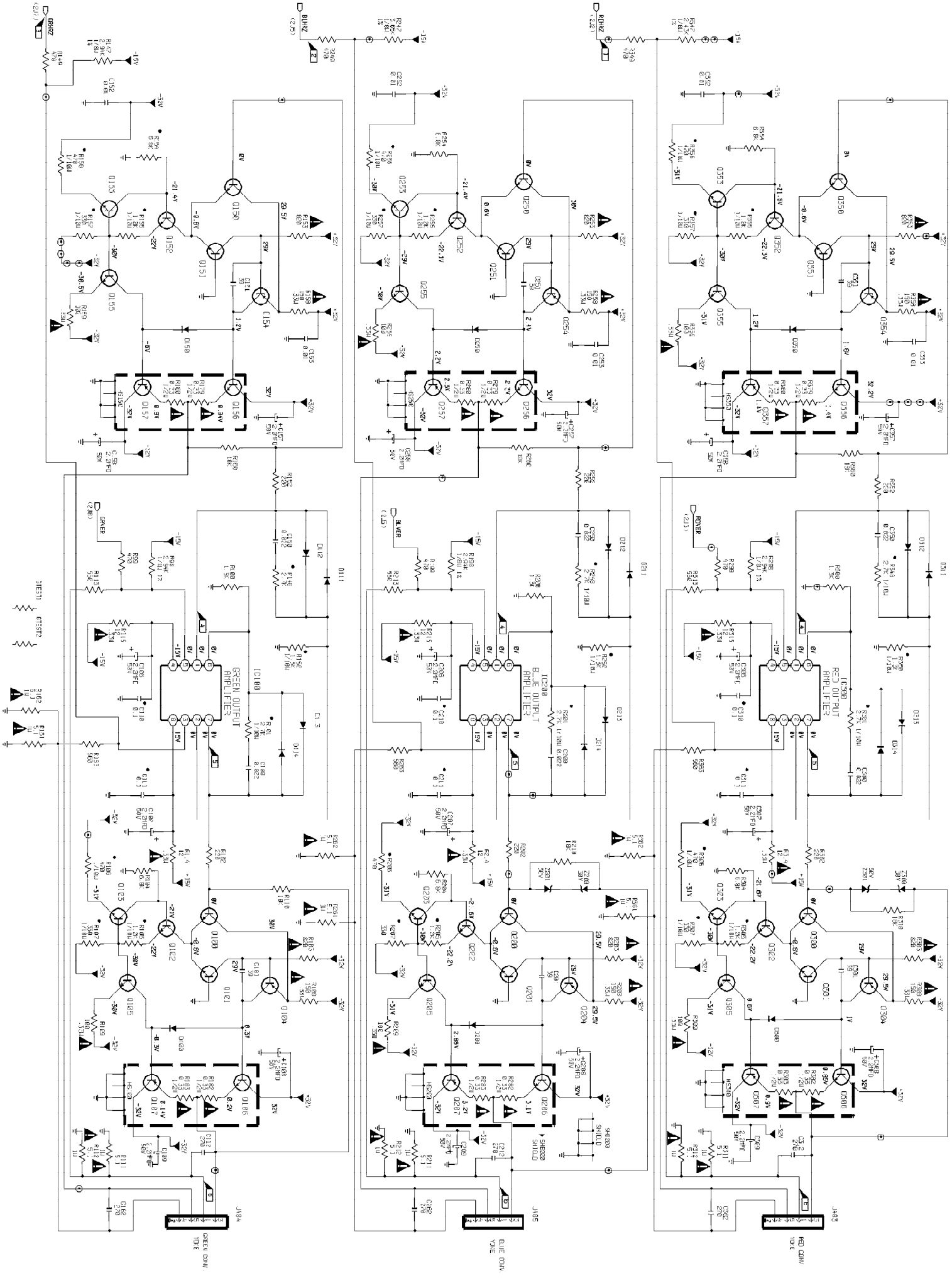

ASG052 ONLY
TO FRONT PANEL JACK
TO INTERNAL GHOST CANCELL
TO PROLOGIC DECODER
TO VARIVISION ONLY
RF SWITCH CONTROL /GHOST CANCEL
MONO/ST SWITCH
MONO/ST INVERTER
BUFFER
SDA
SCL
LEFT IN
RIGHT IN
VIDEO IN

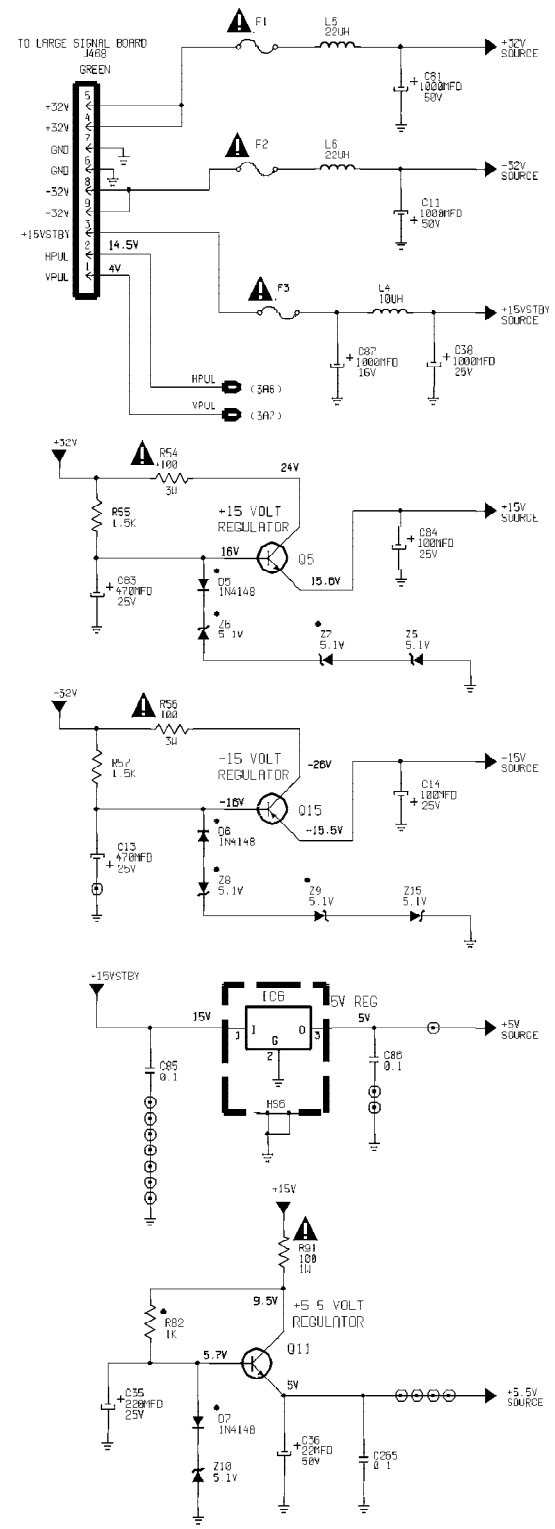

ASG052 ONLY
ASG052 ONLY
ASG052 ONLY
ASG052 ONLY
DIGITAL COMB FILTER IC
IC700
IC701
CHROMA/LUMA SWITCH
Q710
LUM1 AMP
Q712
LUM1 EMPHANCE BUFFER
Q713
CHROMA BUFFER
Q705
SVHS1 AMP
Q703
SVHS2 AMP
Q704
SVHSC AMP
Q702
LUM2 AMP
Q701
CHROMA AMP
Q714
LUM2 EMPHANCE BUFFER
Q720
SVHSC AMP
Q722
BRST BUFFER
Q715
CHROMA/LUMA SWITCH
Q716
COLOR/B/W MODE SW.
Q707
CLI BUFFER
Q708
CLI AMP.
Q709
VID BUFFER
Q710
VID AMP.
Q711
VID BUFFER
Q717
5V REG.
Q718
SYNC SEP.
Q719
SYNC SEP.
Q721
SYNC SEP.
Q723
SYNC SEP.
Q724
SYNC SEP.
Q725
SYNC SEP.
Q726
SYNC SEP.
Q727
SYNC SEP.
Q728
SYNC SEP.
Q729
SYNC SEP.
Q730
SYNC SEP.
Q731
SYNC SEP.
Q732
SYNC SEP.
Q733
SYNC SEP.
Q734
SYNC SEP.
Q735
SYNC SEP.

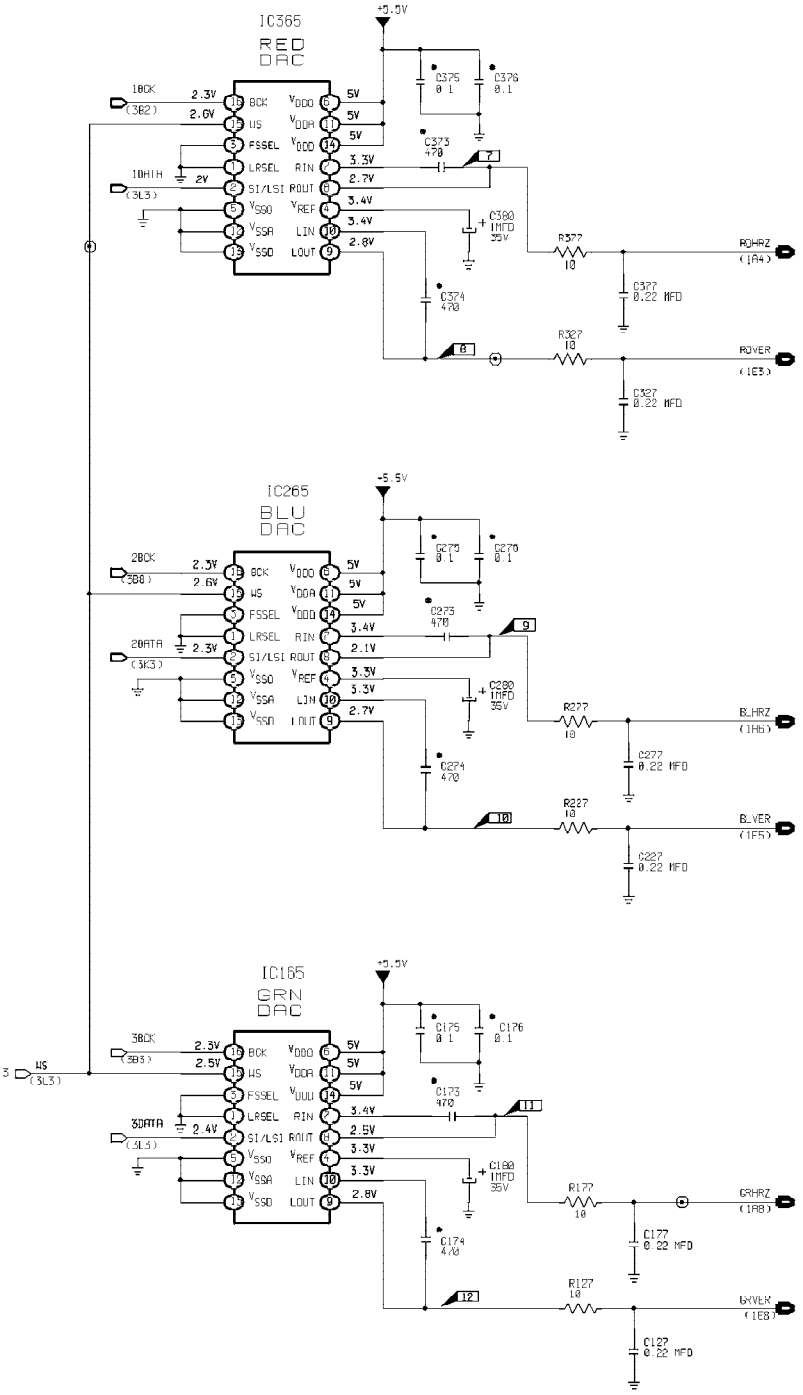

IC401
HOT SIDE
CONTROLLER
IC402
STANDBY
REGULATOR
IC405
VOLTAGE OUTPUT
REGULATOR
IC406
COLD SIDE CONTROLLER
IC408
HC LOAD SENSE
OPTOISOLATOR
HOT SIDE
COLD SIDE
160V CONTROL
160V RTN
160VDC
+15V
-15V
+5V
-32V
+32V
+13V
SDA
SCL
AUDIO PTN
AUDIO FS
TO SMALL SIG. BD.

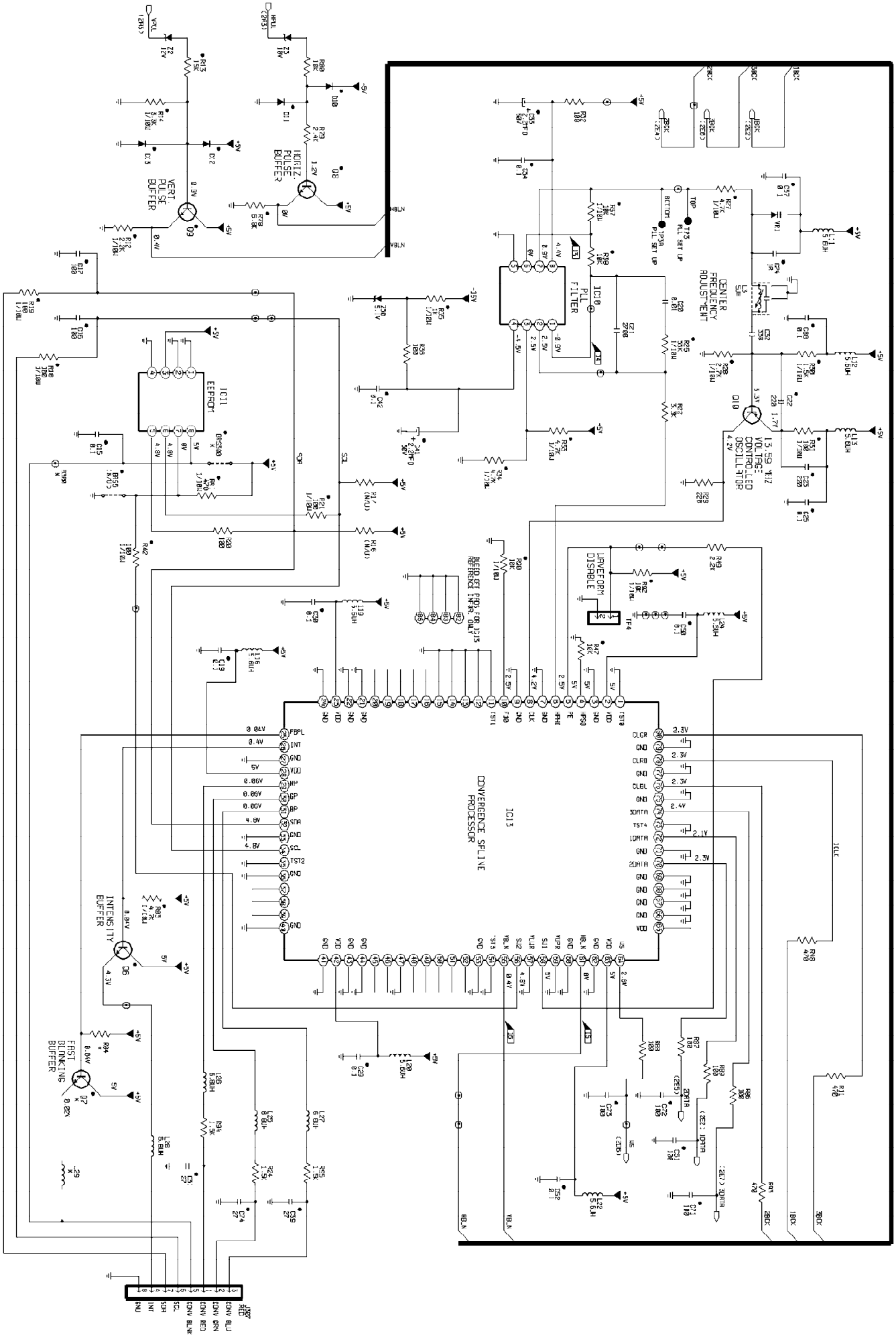

NOT USED
NOT USED
NOT USED
IC551 DEFLECTION PROCESSOR
IC552 12V REG.
IC550 VERTICAL DEFLECTION
Q803 H PRE-DRIVER
Q801 H DRIVE
Q802 HOT
Q804
Q550 EW DRIVE
Q551
Q800
Q808
Q809
Q810
Q811
Q812
Q813
Q814
Q815
Q816
Q817
Q818
Q819
Q820
Q821
Q822
Q823
Q824
Q825
Q826
Q827
Q828
Q829
Q830
Q831
Q832
Q833
Q834
Q835
Q836
Q837
Q838
Q839
Q840
Q841
Q842
Q843
Q844
Q845
Q846
Q847

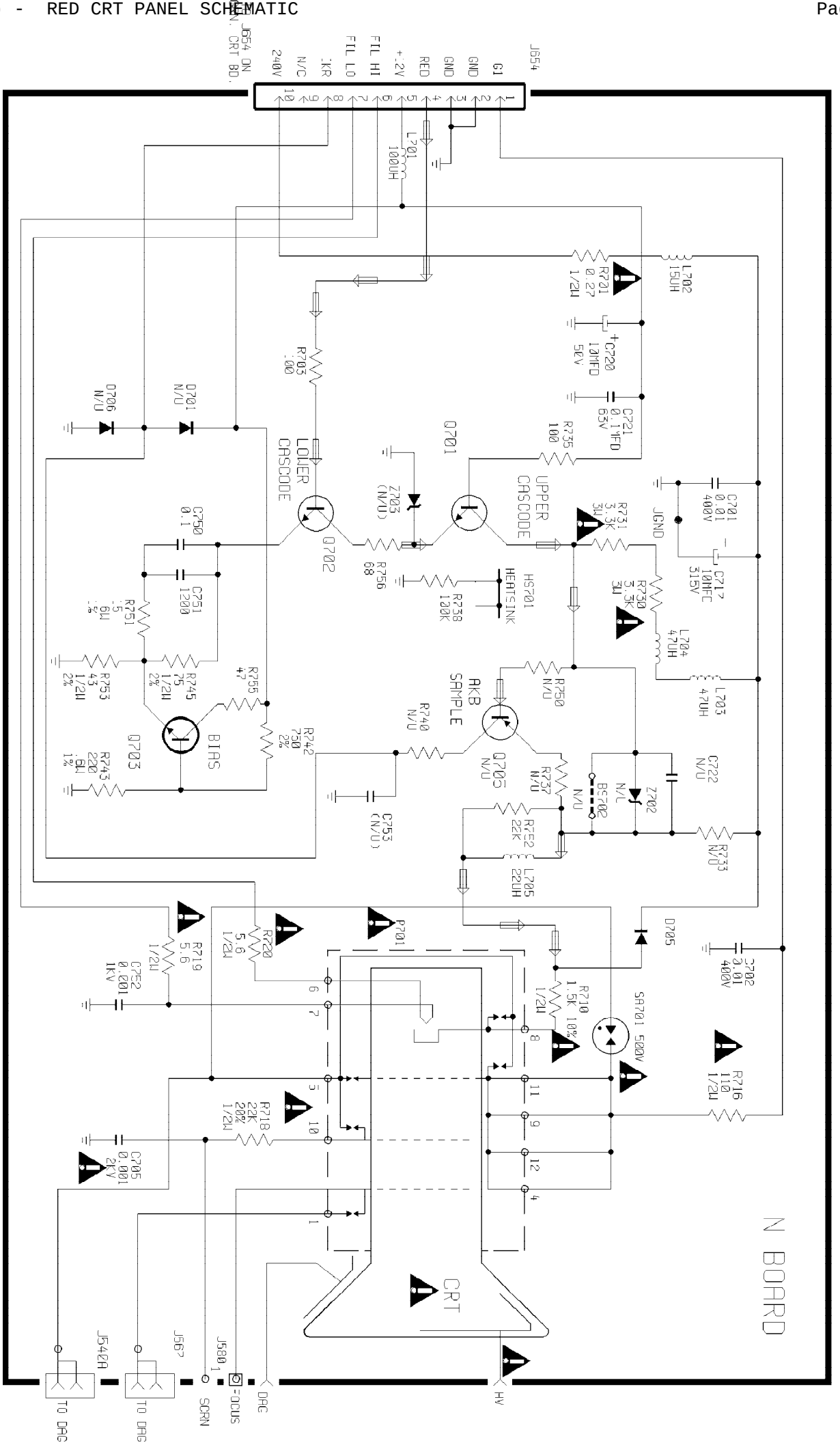

+170VP
L AEL
CRT_PROT
DEFLECTION FAILSAFE
IOU VOLTAGE BLNKR
PROTECTION INVERTER
PROTECTION INVERTER
AVERAGE BEAM CURRENT LIMITER
BEAM LIMITER
HORIZONTAL PROCESSOR
SYNC PULSE INVERTER
TRANSISTOR SHUTDOWN
SOFT START TRANSISTOR
ERROR SIGNAL INVERTER
REFERENCE
SHUTDOWN
HV DRIVE
HV FEEDBACK
HEV UNLATCH
HEV PULSE
TO G-PACK
TO J540-1 GRN DFT BD
H V SPLITTER

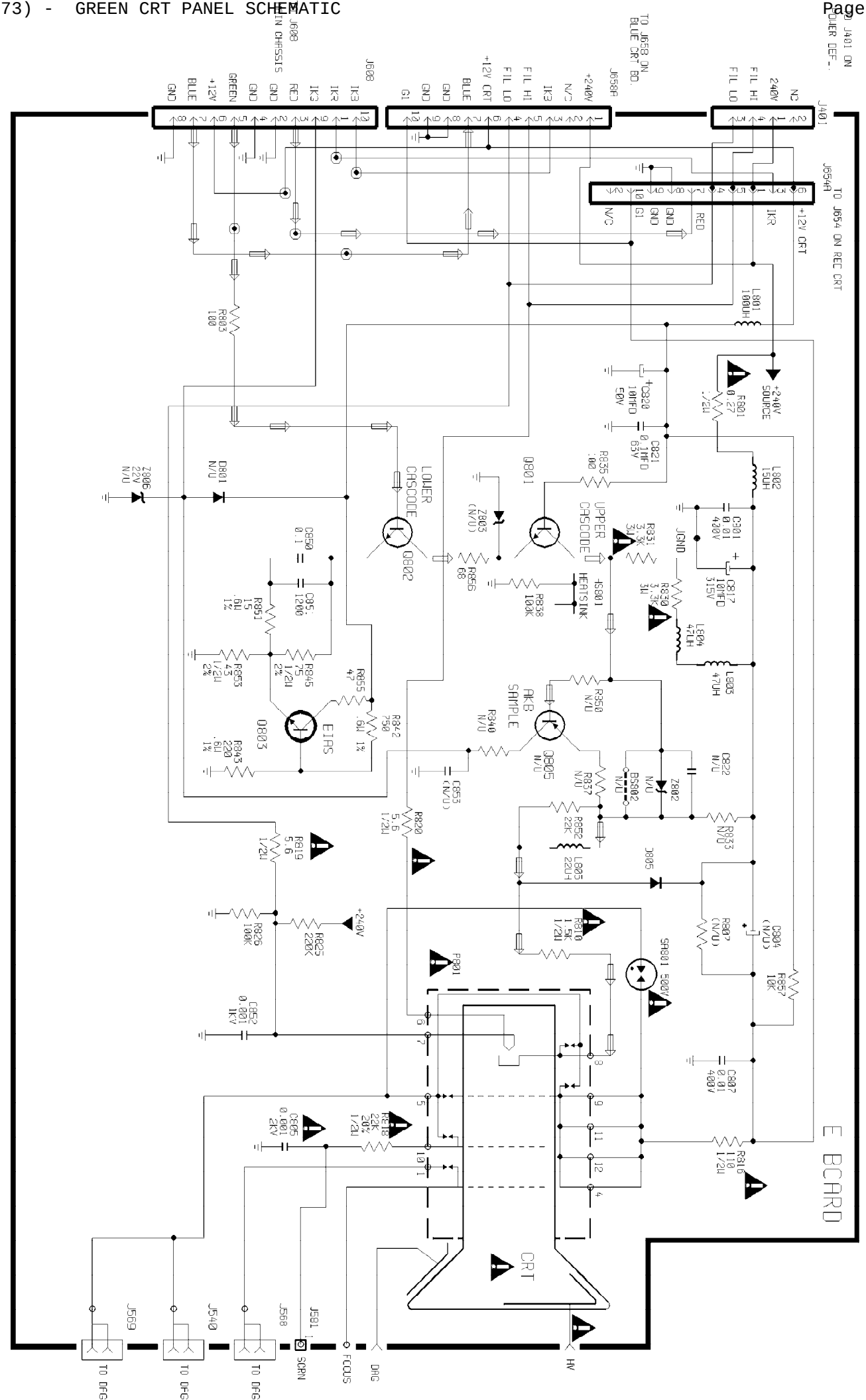

GREEN OUTPUT AMPLIFIER
BLUE OUTPUT AMPLIFIER
RED OUTPUT AMPLIFIER
GREEN
SILVER
BLUE
ROVER
SHIELD
J1814
J1815
J1813

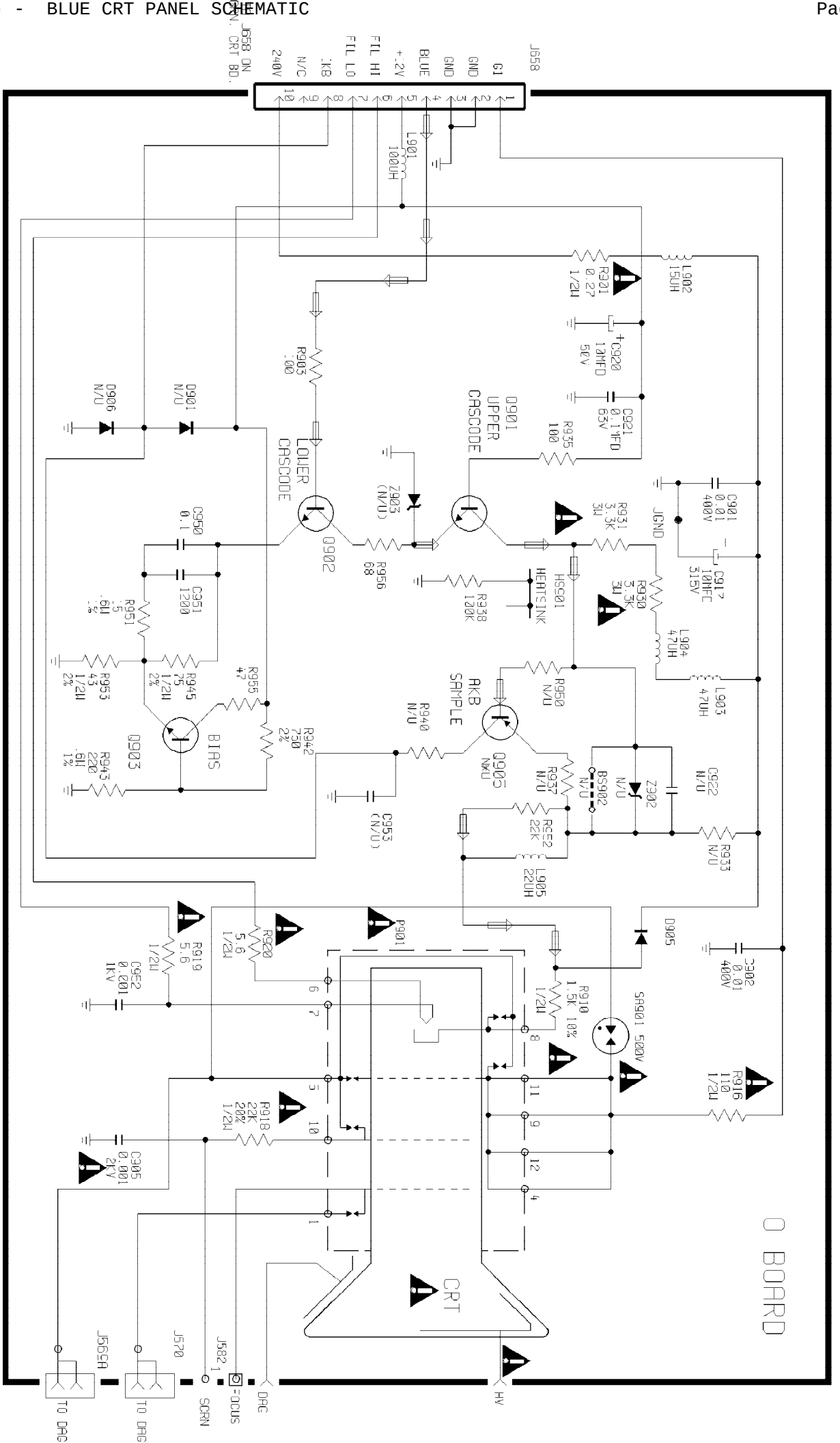

TO LARGE SIGNAL BOARD J468
GREEN
+32V
GND
-32V
+15VSTBY
HPUL
VPUL
14.5V
4V
F1
F2
F3
L5 22UH
L6 22UH
L4 10UH
C81 1000MFD 50V
C11 1000MFD 50V
C87 1000MFD 16V
C38 1000MFD 25V
+32V SOURCE
-32V SOURCE
+15VSTBY SOURCE
(3A6)
(3A7)
R54 100 3W
R55 1.5K
+15 VOLT REGULATOR
Q5
24V
16V
15.6V
C83 470MFD 25V
C84 100MFD 25V
D5 1N4148
Z6 5.1V
Z7 5.1V
Z5 5.1V
+15V SOURCE
R56 100 3W
R57 1.5K
-15 VOLT REGULATOR
Q15
-26V
-16V
-15.5V
C13 470MFD 25V
C14 100MFD 25V
D8 1N4148
Z8 5.1V
Z9 5.1V
Z15 5.1V
-15V SOURCE
IC6
5V REG
15V
5V
C85 0.1
C86 0.1
H56
+5V SOURCE
R91 100 1W
R82 1K
9.5V
+5 5 VOLT REGULATOR
Q11
5.7V
C35 220MFD 25V
C36 220MFD 50V
C265 0.1
D7 1N4148
Z10 5.1V
+5.5V SOURCE

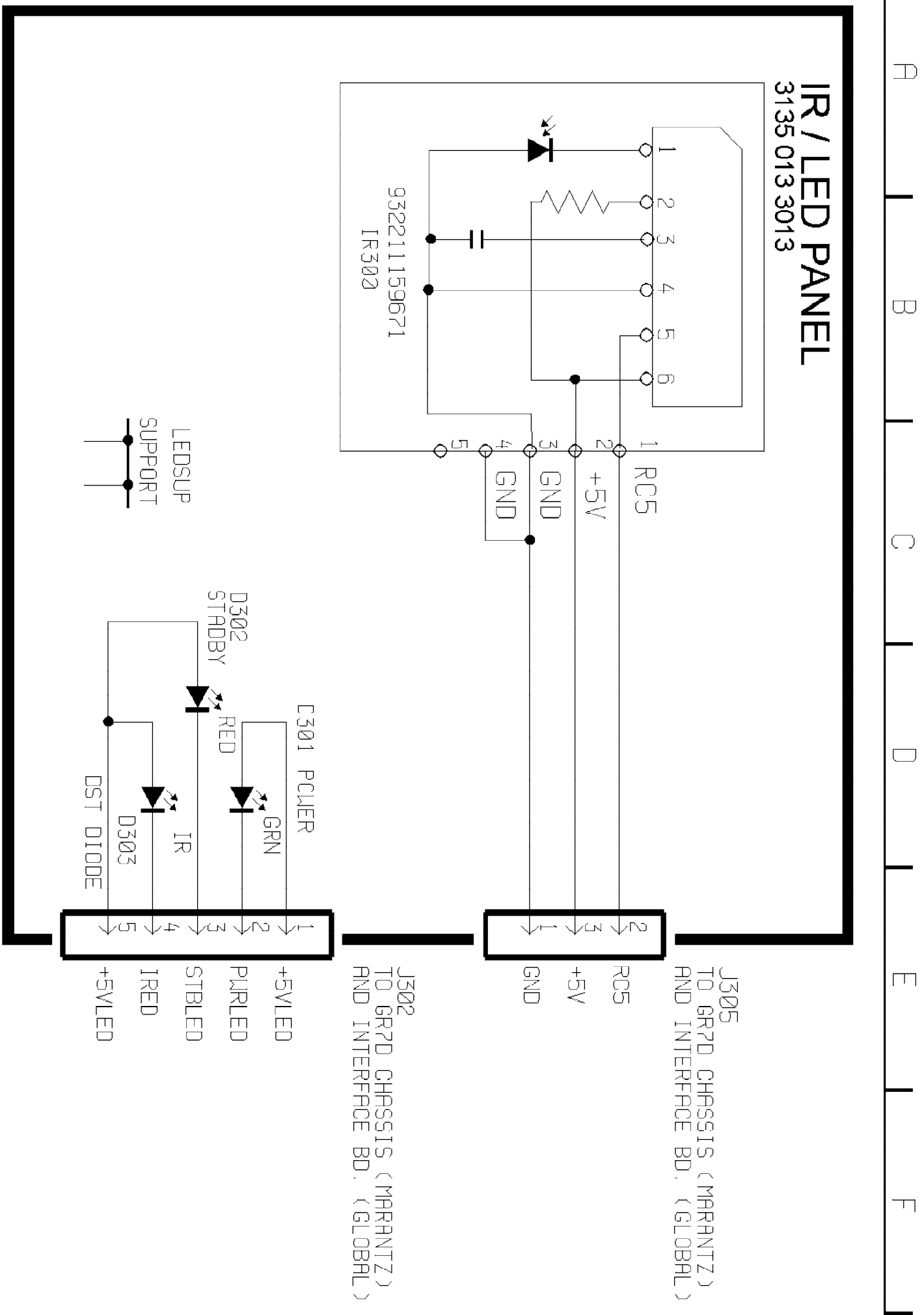

IC365
RED DAC
IC265
BLU DAC
IC165
GRN DAC
+5.5V
10CK
10DATA
2BCK
2DATA
3BCK
3DATA
WS
BCK
WS
FSSEL
LRSEL
SI/LSI
VSSO
VSSA
VSSD
VDDO
VDDA
VDDD
RIN
ROUT
VREF
LIN
LOUT
C375 0.1
C376 0.1
C373 470
C380 1MFD 35V
C374 470
C377 0.22 MFD
R377 10
R327 10
C327 0.22 MFD
ROHRZ (1A4)
ROVER (1E3)
C275 0.1
C276 0.1
C273 470
C280 1MFD 35V
C274 470
C277 0.22 MFD
R277 10
R227 10
C227 0.22 MFD
BLHRZ (1H6)
BLVER (1F5)
C175 0.1
C176 0.1
C173 470
C180 1MFD 35V
C174 470
C177 0.22 MFD
R177 10
R127 10
C127 0.22 MFD
GRHRZ (1H8)
GRVER (1E8)

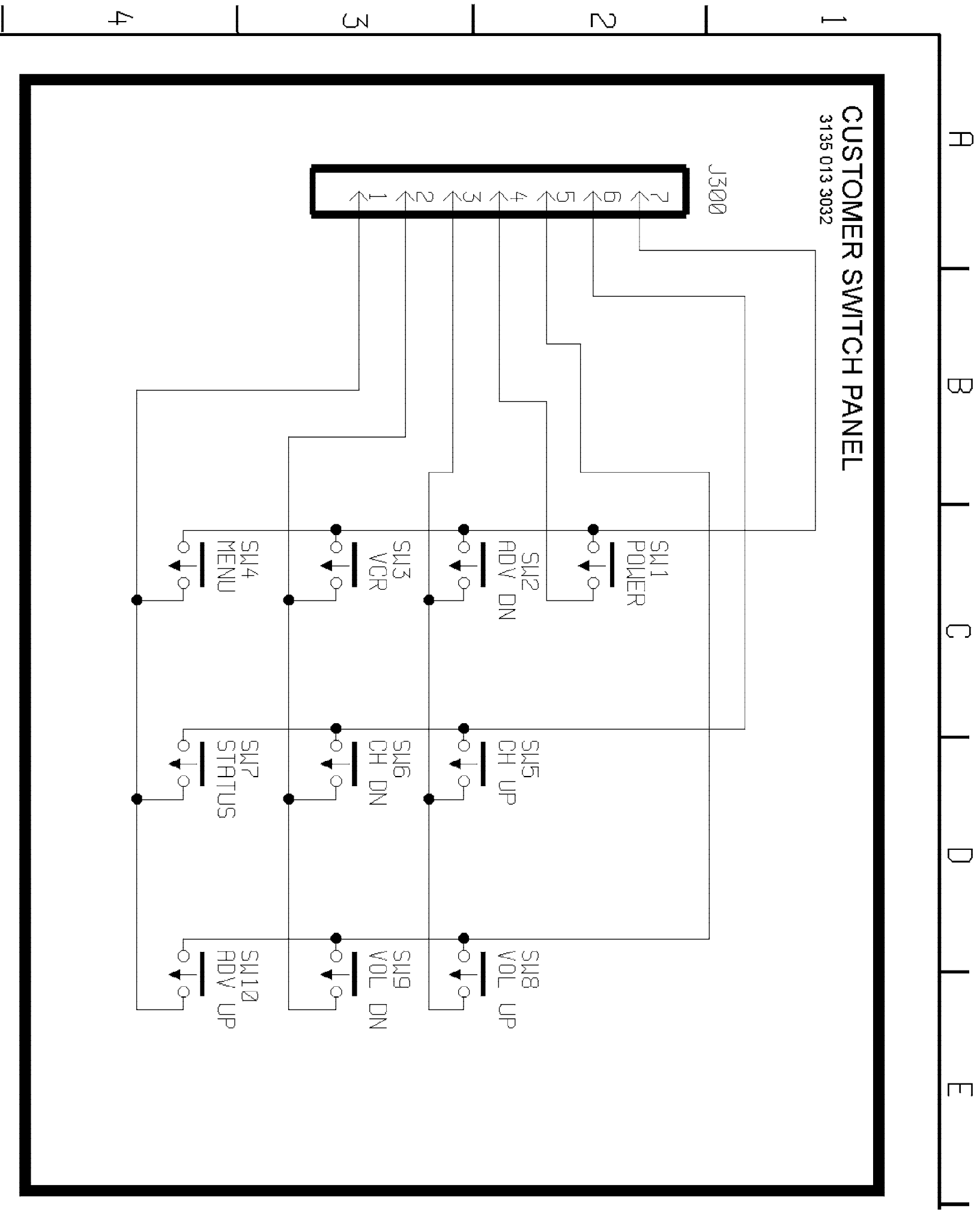

IC13
CONVERGENCE SPLINE PROCESSOR
IC11
EEPROM
IC10
PLL FILTER
VERT. PULSE BUFFER
HORIZ PULSE BUFFER
INTENSITY BUFFER
FAST BLANKING BUFFER
CENTER FREQUENCY ADJUSTMENT
VOLTAGE CONTROLLED OSCILLATOR
WAVEFORM DISABLE
BUFFER OUT FROM INTERFACE MODULE
TO INTERFACE MODULE

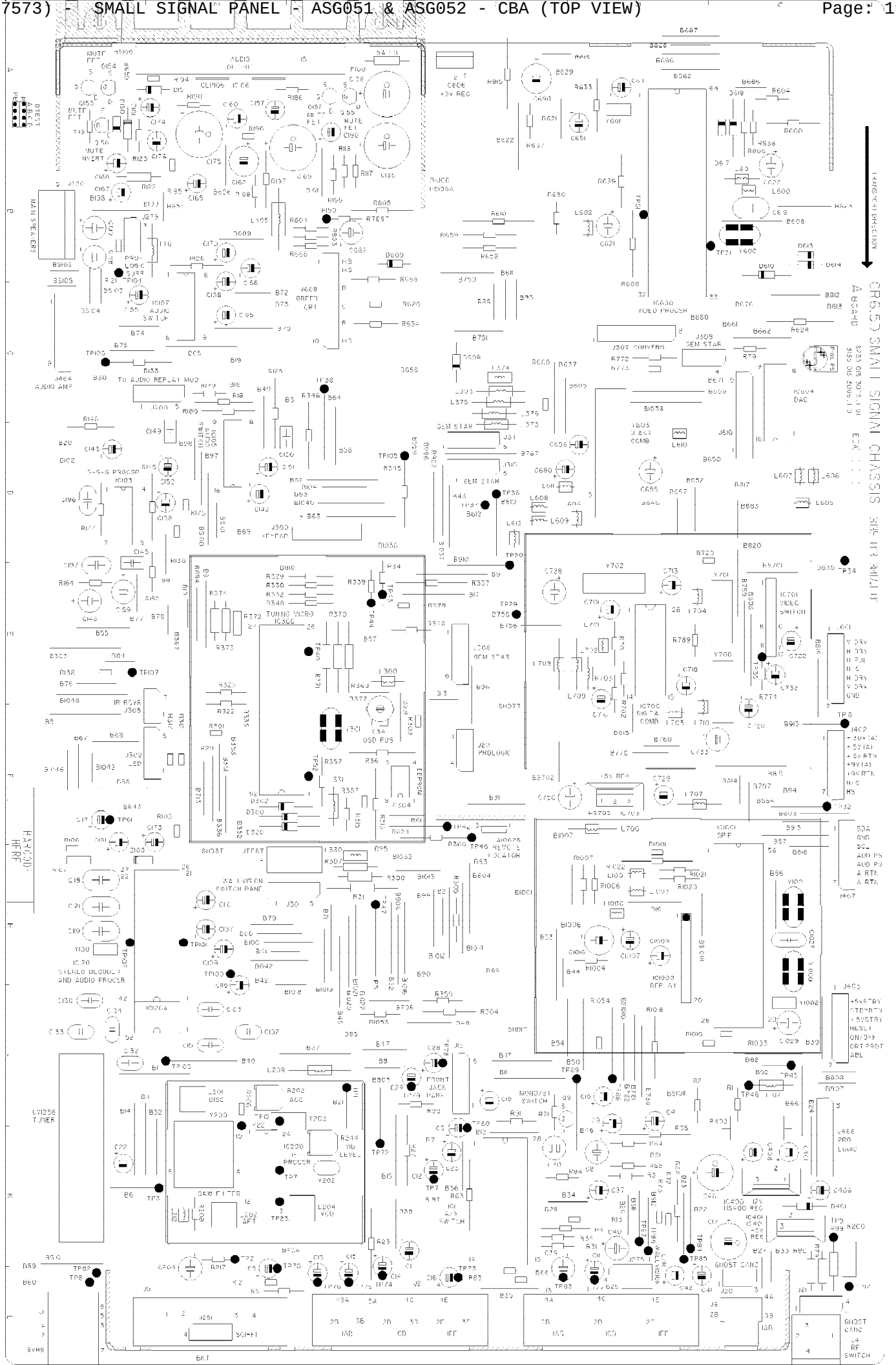

J654
G1
GND
GND
RED
+.2V
FIL HI
FIL LO
-1KR
N/C
240V
J654 ON CRT BD.
L701 100UH
L702 15UH
R701 0.27 1/2W
C720 10MFD 50V
C721 0.14FD 65V
R703 .00
D706 N/U
D701 N/U
Q701
R735 100
LOWER CASCODE
Q702
Z703 (N/U)
UPPER CASCODE
C701 0.01 400V
JGND
R731 3.3K 3W
C717 10MFD 315V
R730 3.3K 3W
L704 47UH
L703 47UH
C750 0.1
C751 1200
R751 .5 .6W 1%
R753 43 1/2W 2%
R745 75 1/2W 2%
R755 47
BIAS
Q703
R743 220 .6W 1%
R742 750 2%
R740 N/U
AKB SAMPLE
R750 N/U
Q705 N/U
R737 N/U
C753 (N/U)
R752 22K
L705 22UH
C722 N/U
Z702
BS702 N/L
N/U
R733 N/U
D705
C702 3.01 400V
R719 5.6 1/2W
R720 5.6 1/2W
P701
C752 0.001 1KV
R710 1.5K 10%
SA701 500V
R716 110 1/2W
R718 22K 20% 1/2W
C705 0.001 2KV
CRT
N BOARD
J542A
J567
J580
SCRN
FOCUS
DAC
HV
TO DAC
TO DAC
HS701 HEATSINK
R738 120K
R756 68

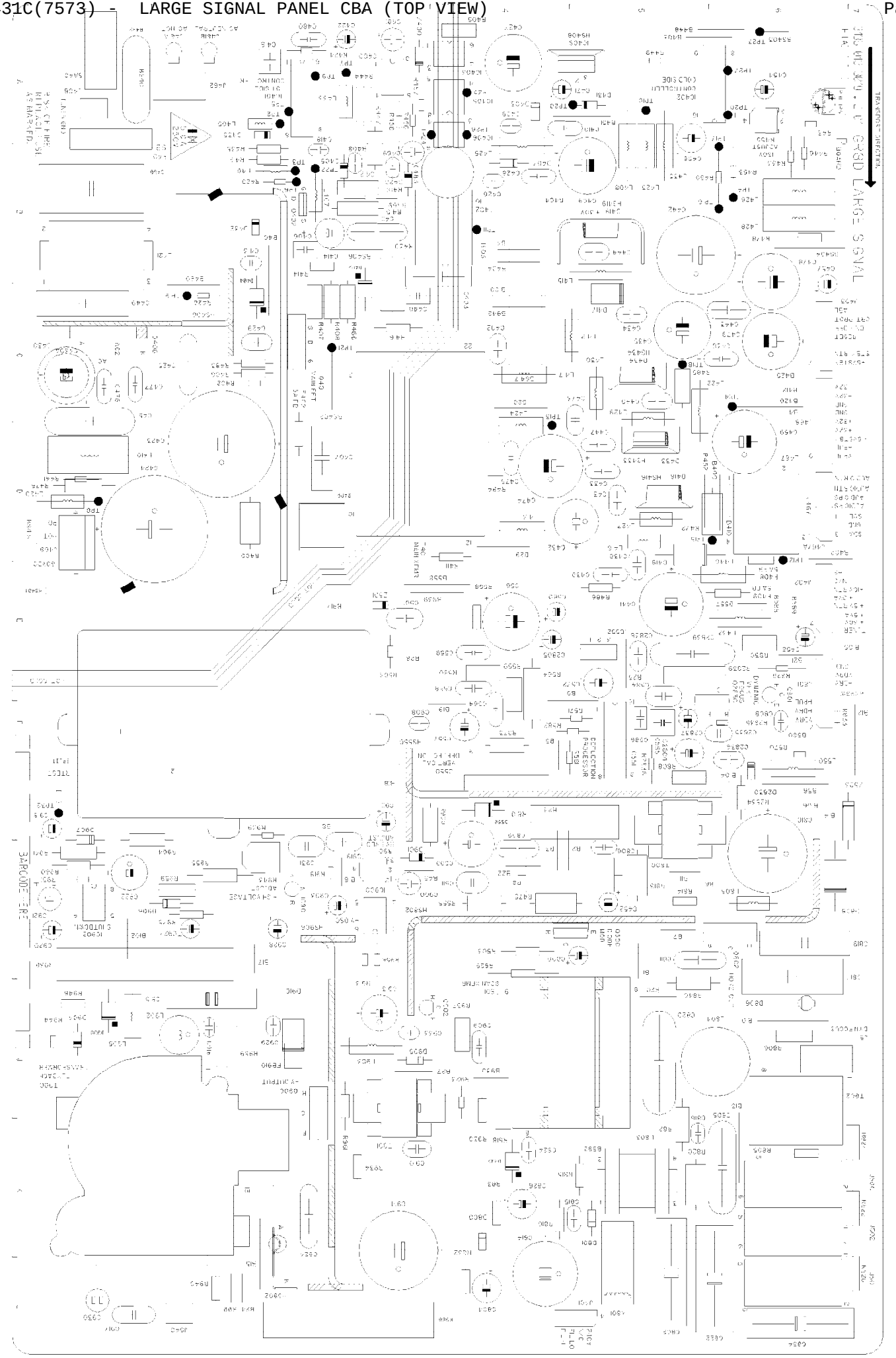

J401
J654A
J658A
J608
TO J654 ON RED CRT
TO J658 ON BLUE CRT BD.
TO J401 ON DEFL. PWR BD.
+240V SOURCE
+12V CRT
LOWER CASCODE
Q802
UPPER CASCODE
Q801
AKB SAMPLE
Q805
EIAS
Q803
HEATSINK
CRT
E BCARD
TO DFG
SCRN
FOCUS
DRG
HV

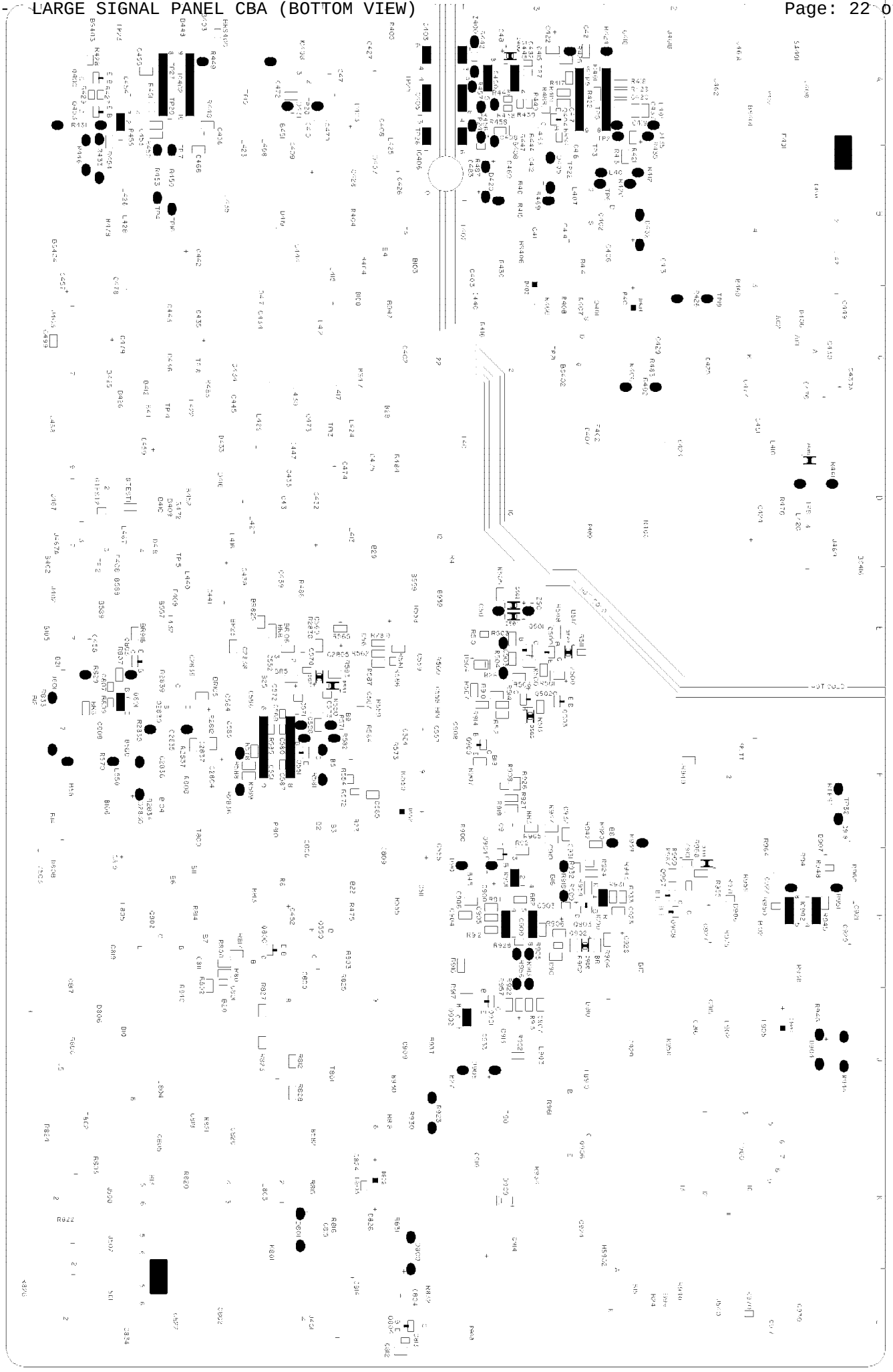

J658 ON CRT BD.
240V
N/C
-KB
FIL LO
FIL HI
+.2V
BLUE
GND
GND
G1
J658
L901 100UH
R901 0.27 1/2W
L902 15UH
C920 10MFD 50V
R903 .00
D906 N/U
D901 N/U
C921 0.14FD 6.5V
R935 100
Q901 UPPER CASCODE
LOWER CASCODE
Z903 (N/U)
Q902
C901 0.01 400V
JGND
R931 3.3K 3W
C950 0.1
C951 1200
R951 .5 .6W 1%
R956 68
R938 120K
HS501 HEATSINK
R930 3.3K 3W
C917 10MFD 315V
L904 47UH
L903 47UH
R950 N/U
R955 47
R953 43 1/2W 2%
R945 75 1/2W 2%
AKB SAMPLE
R940 N/U
Q903 BIAS
R942 750 2%
Q904 N/U
R937 N/U
BS902 N/U
Z902 N/U
C922 N/U
C953 (N/U)
RES2 22K
R933 N/U
L905 22UH
R943 220 .6W 1%
P901
R920 5.6 1/2W
D905
C902 0.01 400V
R919 5.6 1/2W
C952 0.001 1KV
R910 1.5K 10%
SA901 500V
R916 110 1/2W
R918 22K 20% 1/2W
C905 0.001 2KV
CRT
J569A
J570
J582
SCRN
FOCUS
DAC
HV
TO DAC
TO DAC
O BOARD

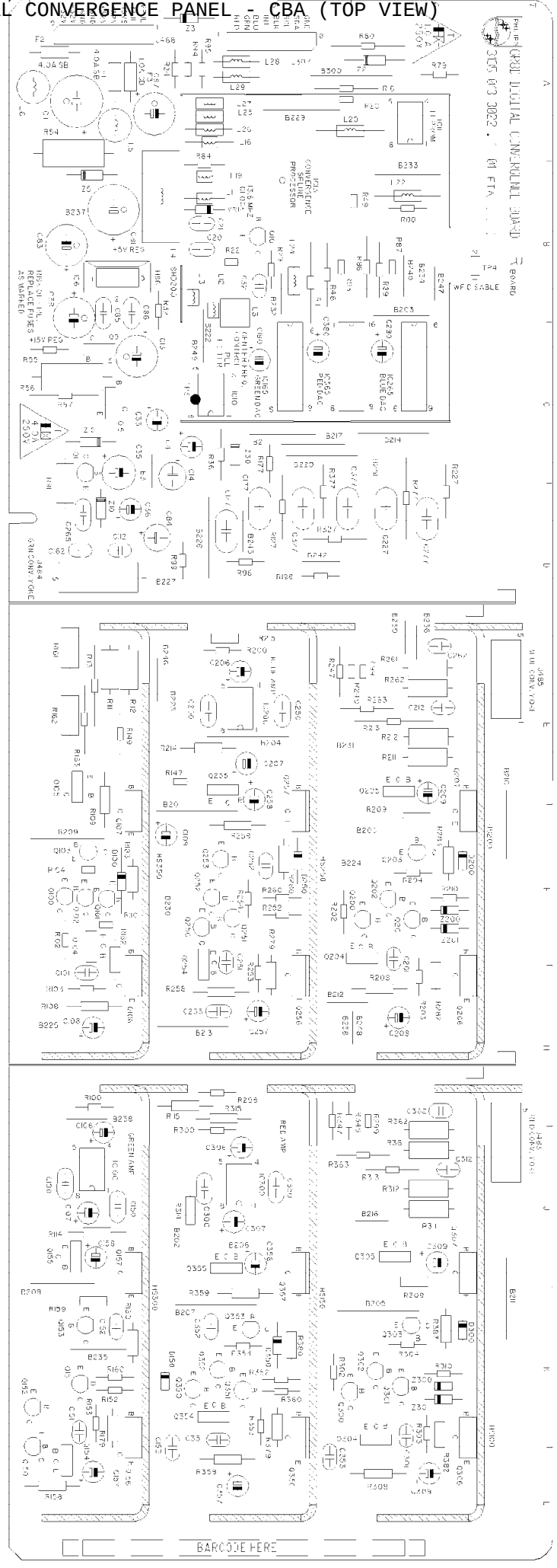

IR / LED PANEL
3135 013 3013
9322111596 71
IR302
1
2
3
4
5
6
RC5
+5V
GND
GND
LEDSUP
SUPPORT
D302
STADBY
RED
D301 PCWER
GRN
IR
D303
DST DIODE
+5VLED
PWRLED
STBLED
IRED
+5VLED
J305
TO GR7D CHASSIS (MARANTZ)
AND INTERFACE BD. (GLOBAL)
J302
TO GR7D CHASSIS (MARANTZ)
AND INTERFACE BD. (GLOBAL)


CUSTOMER SWITCH PANEL
3135 013 3032
J300
1
2
3
4
5
6
7
SW1 POWER
SW2 ADV DN
SW3 VCR
SW4 MENU
SW5 CH UP
SW6 CH DN
SW7 STATUS
SW8 VOL UP
SW9 VOL DN
SW10 ADV UP


CRG57 SMALL SIGNAL CHASSIS
A BOARD
MAIN SELECTORS
AUDIO AMP
TU AUDIO REPLAY MOD
TUNING MICRO IC500
OSD POS
IR RCVR
STEREO DECODER AND AUDIO PROCES
VIDEO PROCESSOR
VIDEO SWITCH
DAC
REMOTE LOCATOR
SPF
REPLAY
LW1236 TUNER
FRONT JACK PANEL
SCART
GHOST CANC
RF SWITCH


TRANSPORT DIRECTION
BARCODE HERE




PHILIPS DIGITAL CONVERGENCE BOARD
3139 123 3022 . 00 FTA
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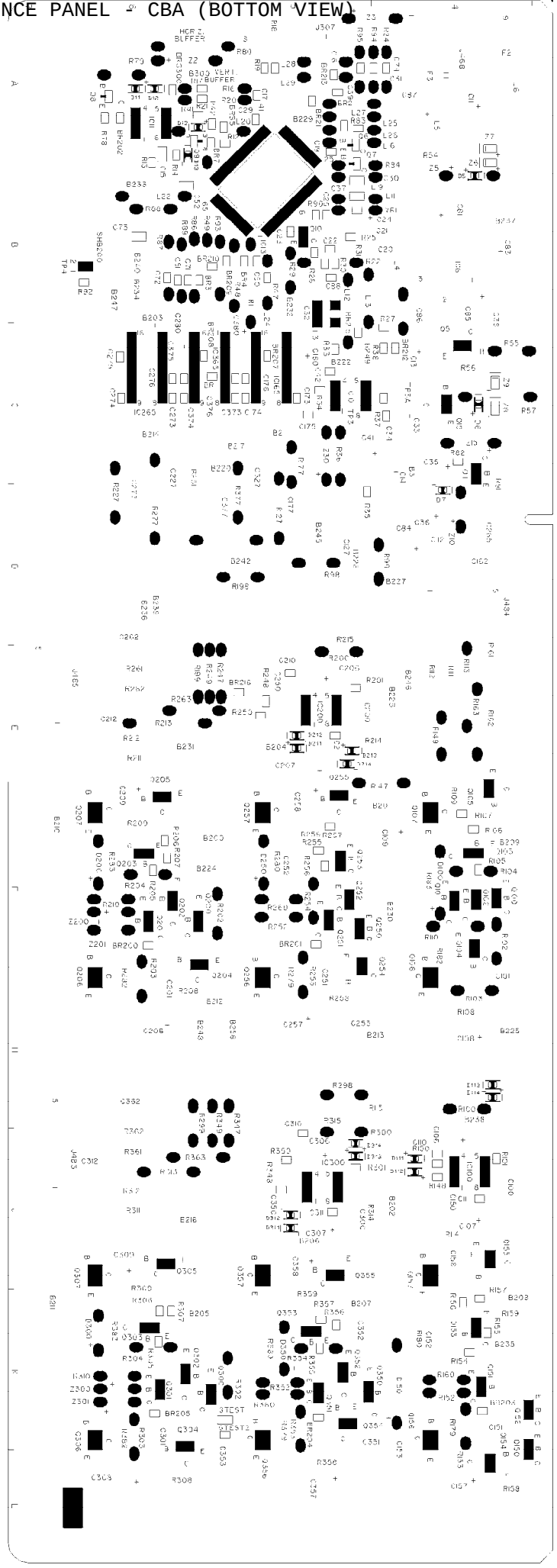

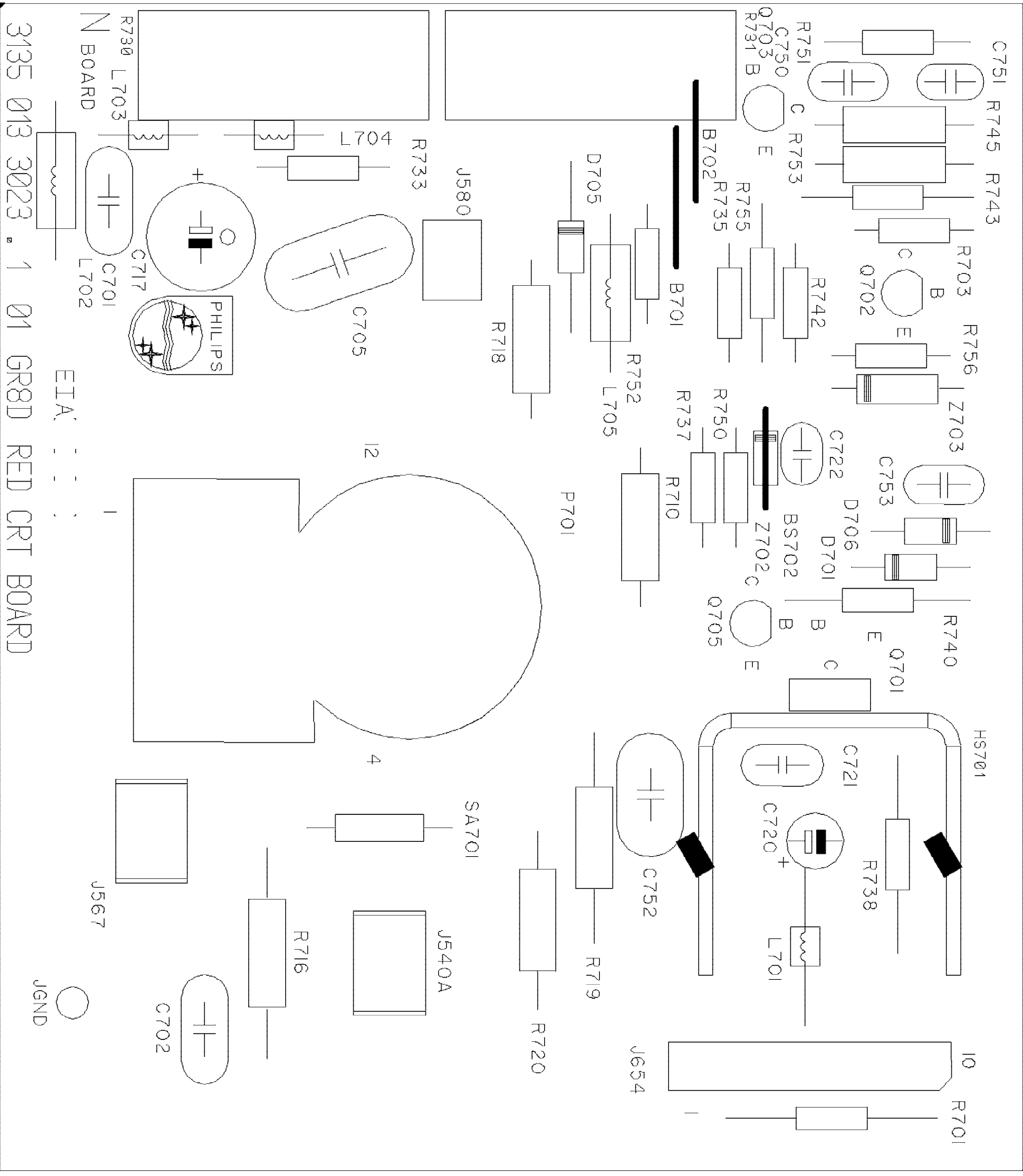
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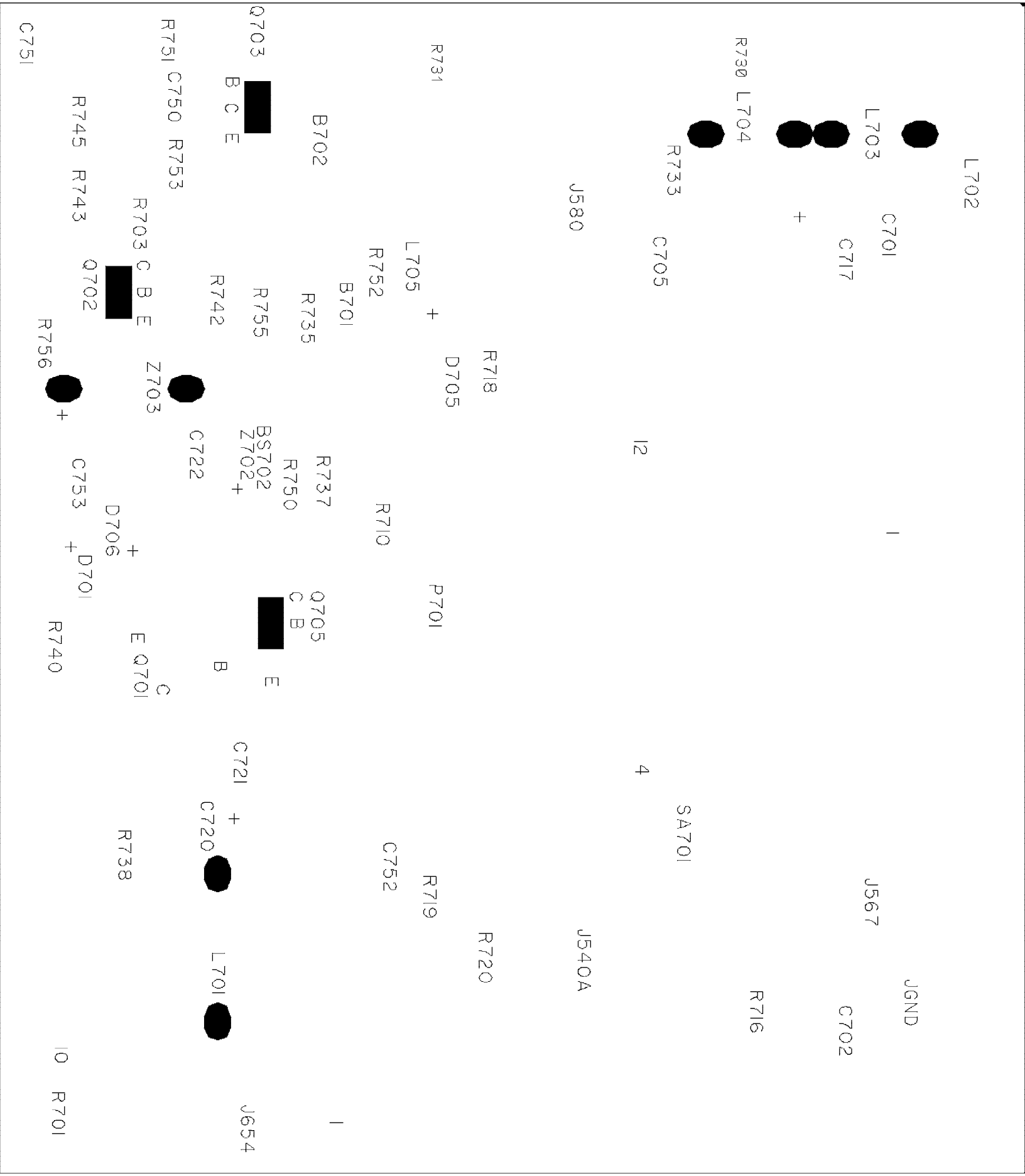
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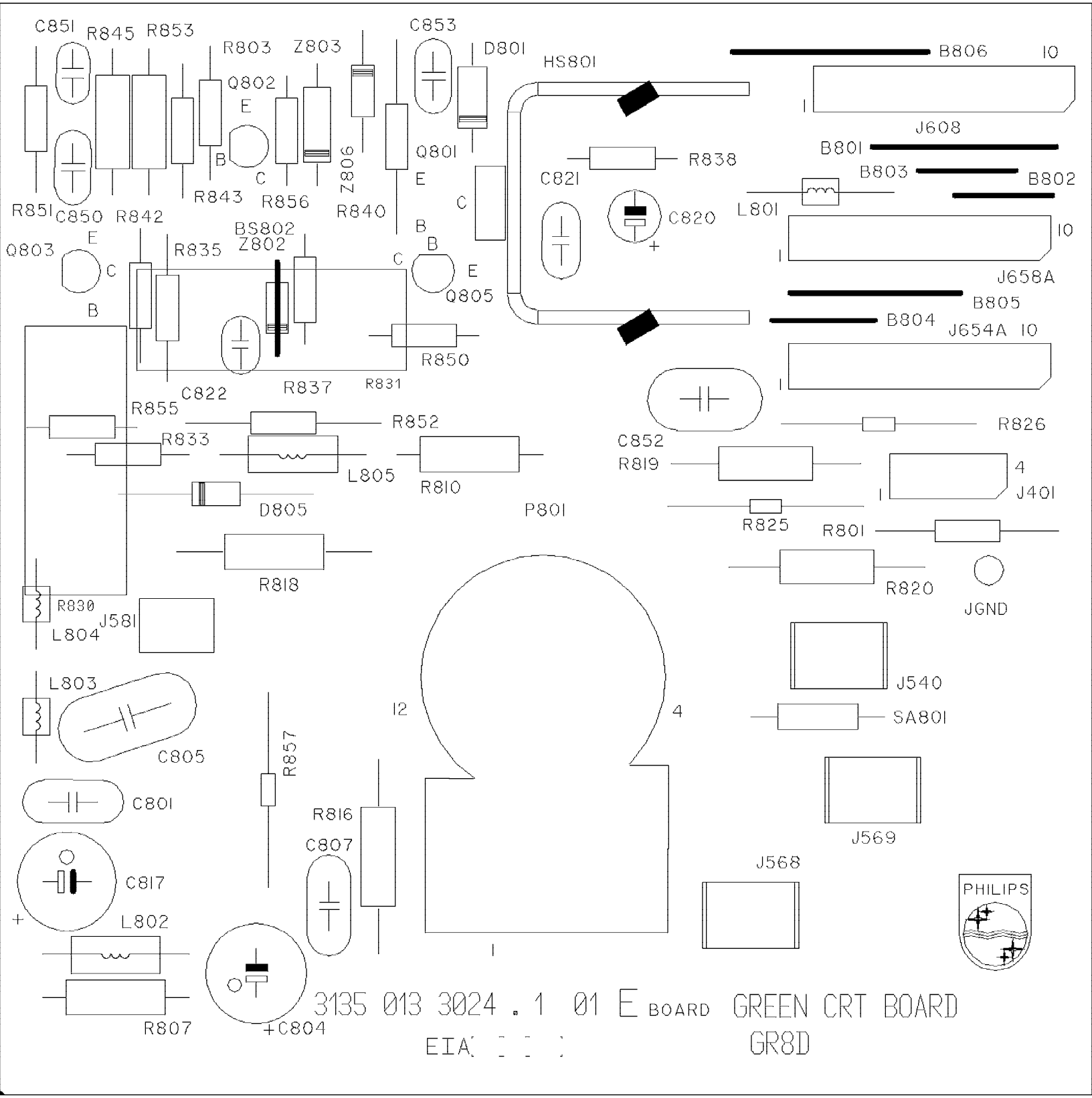
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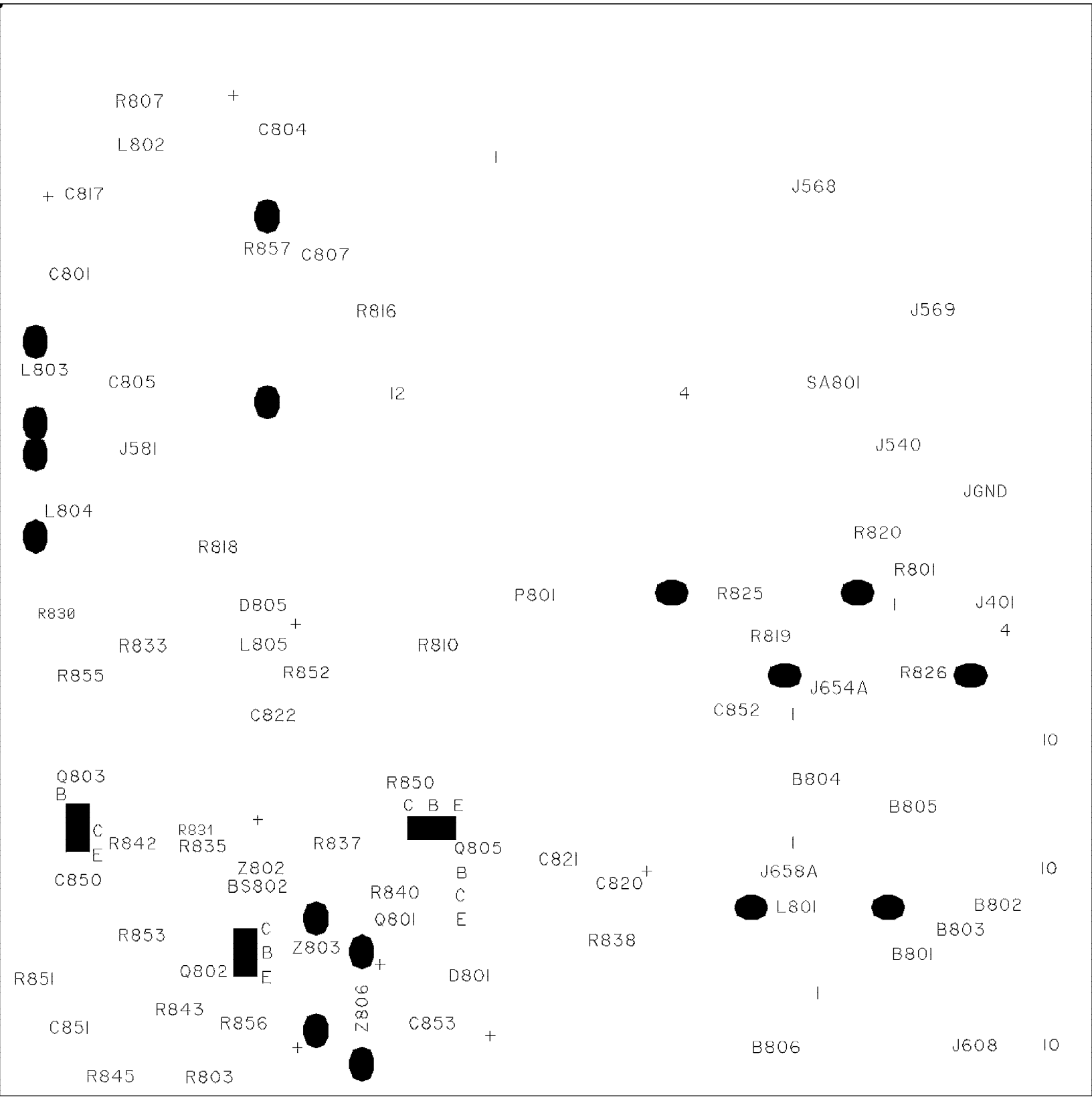
EIA GR8D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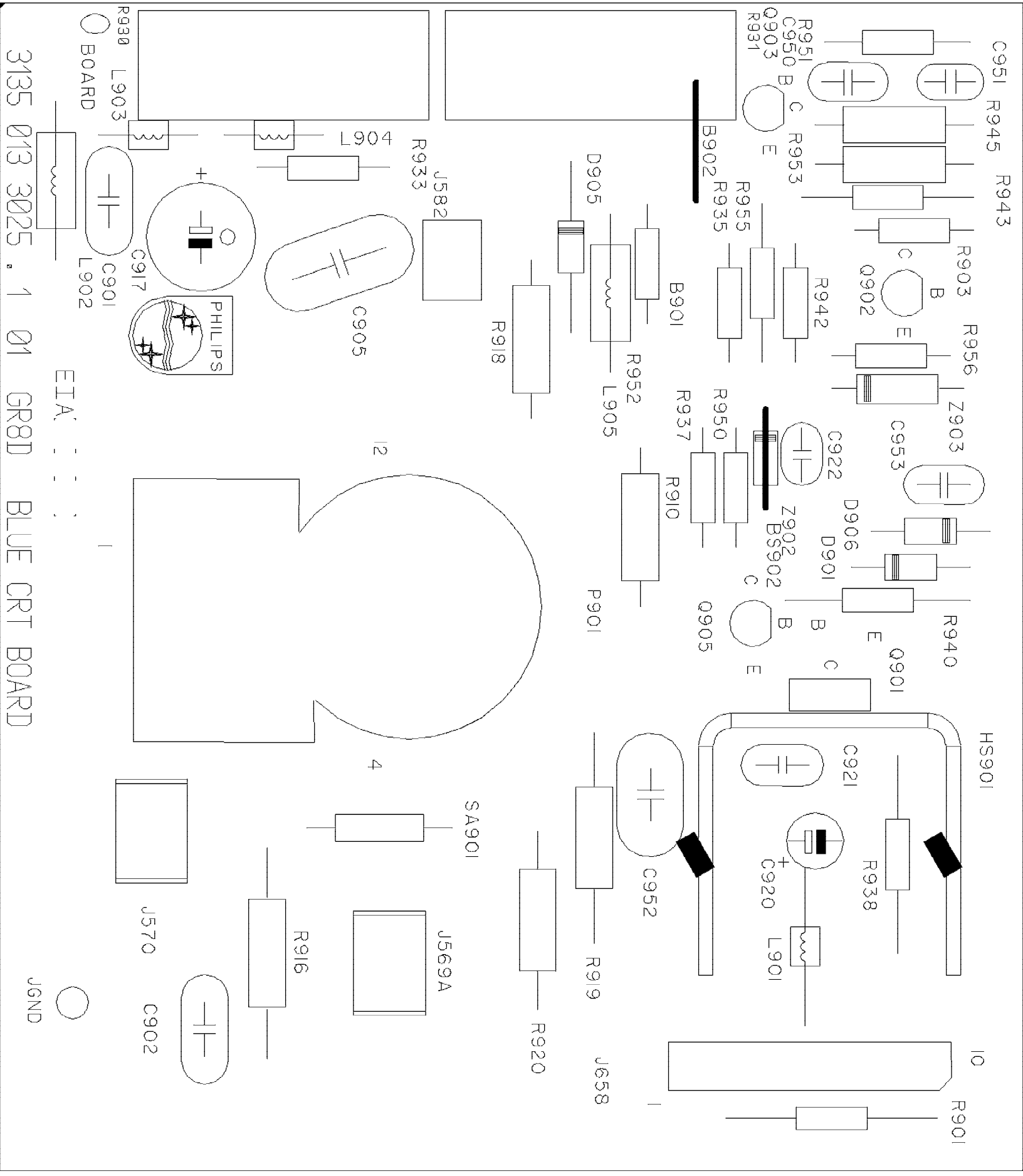
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C905
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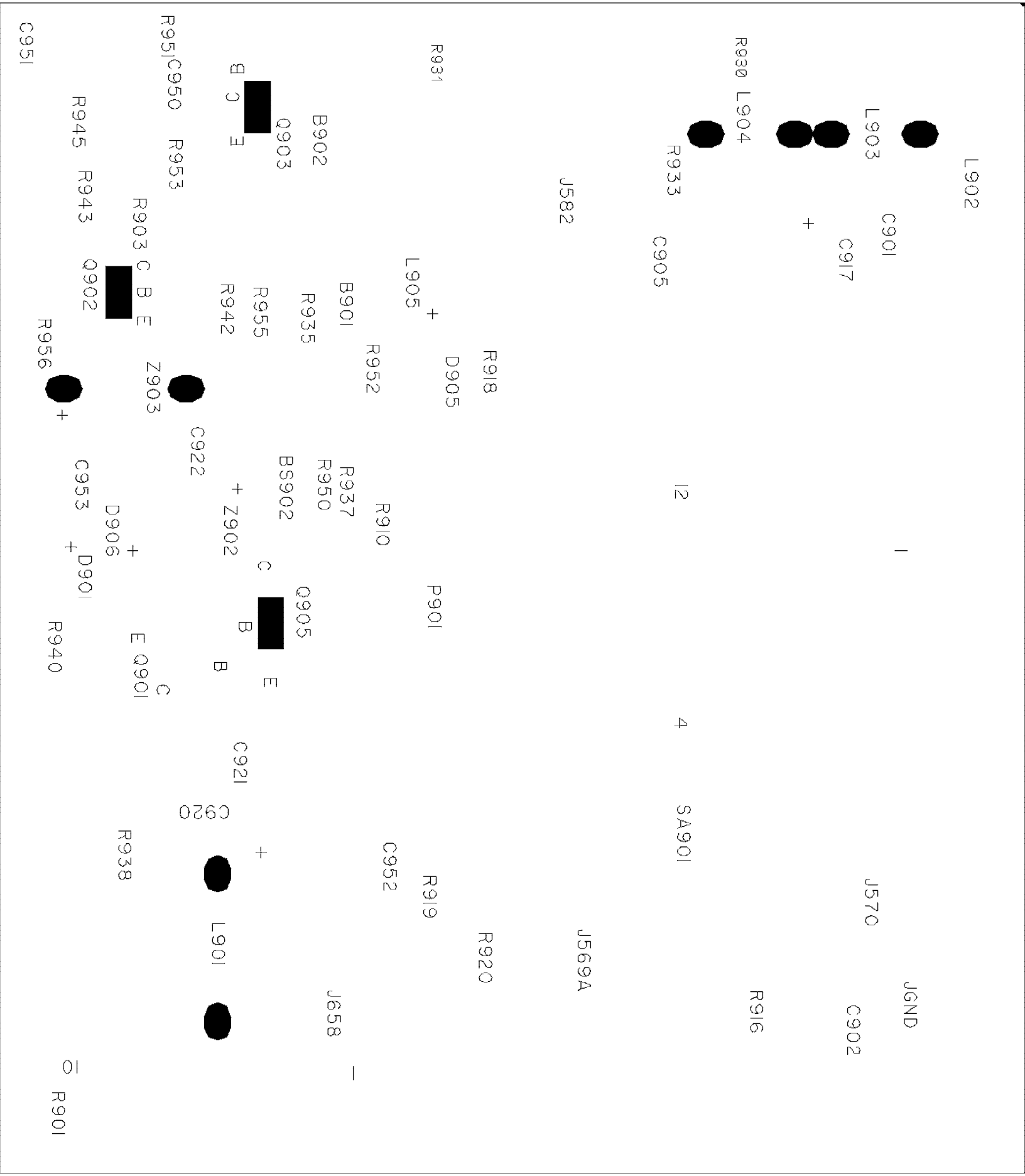
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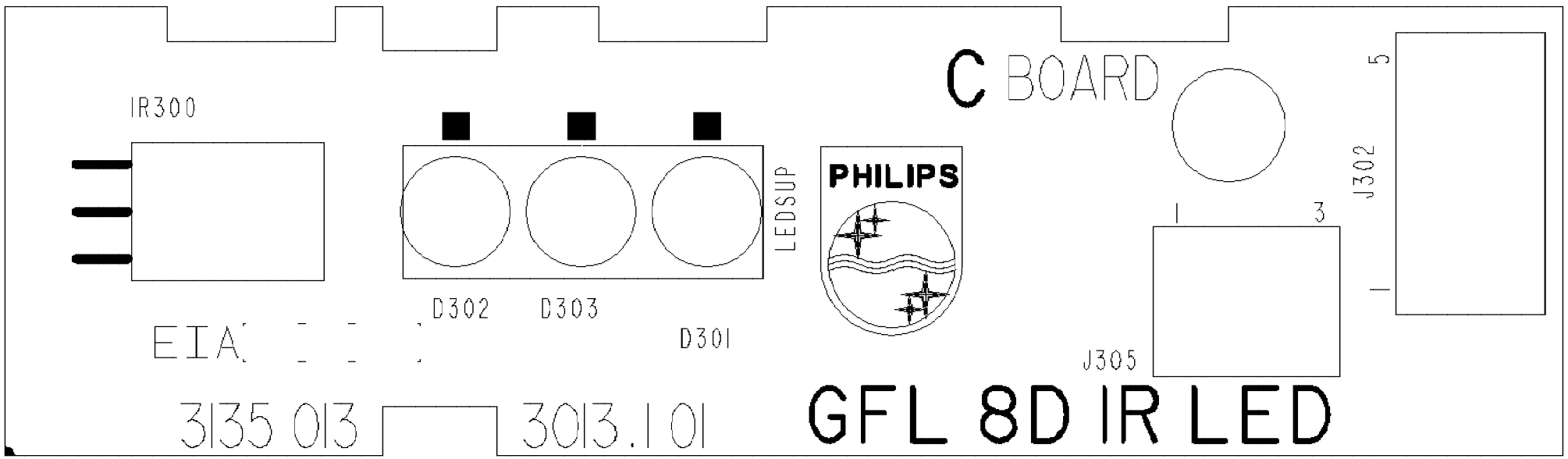
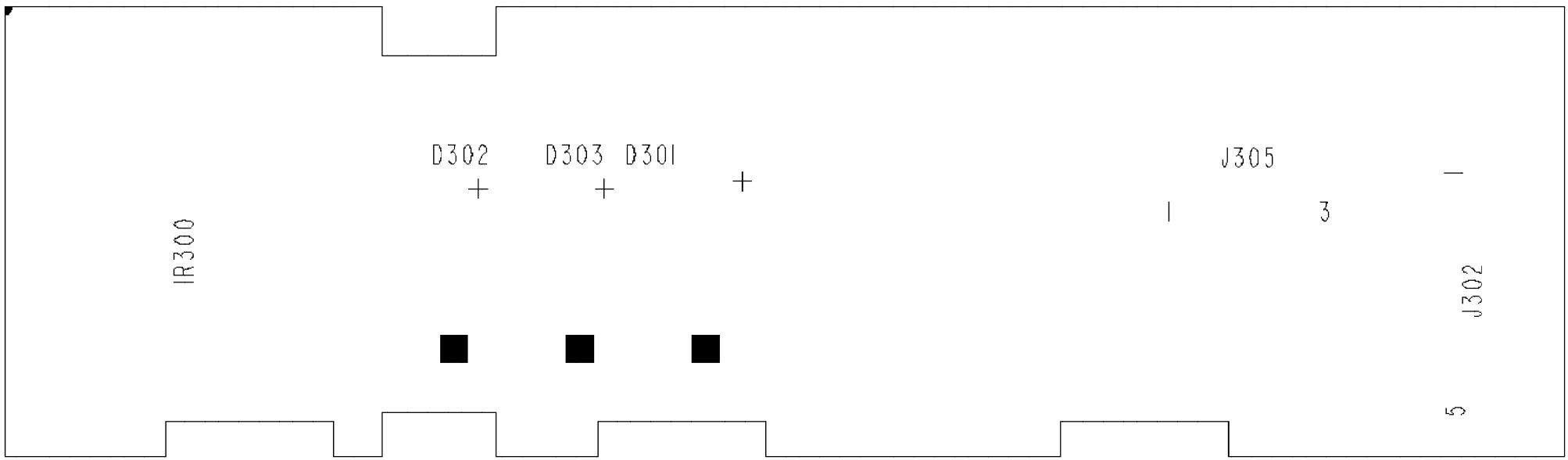
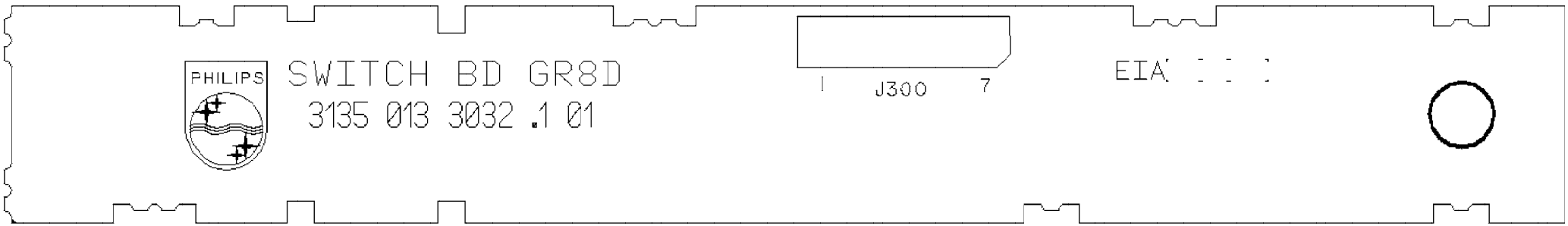
TOP VIEW



BOTTOM VIEW



TOP VIEW



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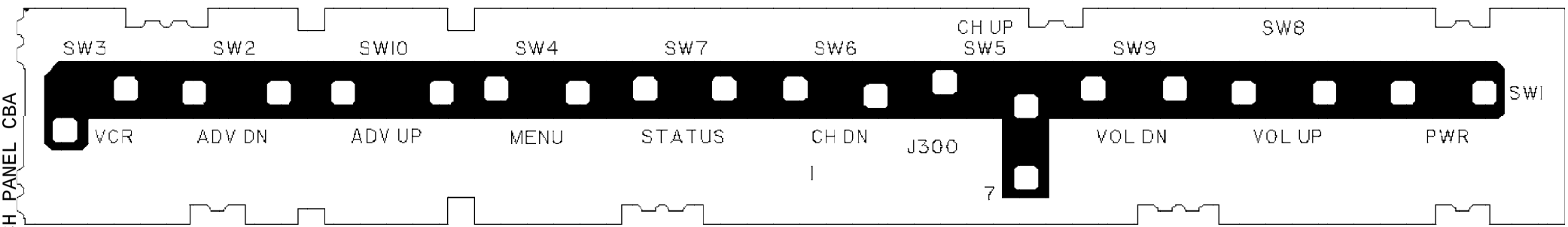

Philips Consumer Electronics

Technical Service Data

Service and Quality
Service Publications Dept.
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P.O. Box 14810
Knoxville, TN 37914

Manual 7573
Model no.: 8P5431C
First Publish: 04-19-2004
Rev. Date: 11-12-98
Print Date: 4/19/2004

Pg. SCHEMATIC DIAGRAMS AND PC BOARDS

1. PTV 800 & 805 WIRING DIAGRAM
2. SMALL SIGNAL PANEL - ASG051 & ASG052 - SECTION 1 SCHEMATIC
3. SMALL SIGNAL PANEL - ASG051 & ASG052 - SECTION 2 SCHEMATIC
4. SMALL SIGNAL PANEL - ASG051 & ASG052 - SECTION 3 SCHEMATIC
5. SMALL SIGNAL PANEL - ASG051 & ASG052 - SECTION 4 SCHEMATIC
6. SMALL SIGNAL PANEL - ASG051 & ASG052 - SECTION 5 SCHEMATIC
7. SMALL SIGNAL PANEL - ASG051 & ASG052 - SECTION 6 SCHEMATIC
8. LARGE SIGNAL PANEL - APD019, APD020 & APD021- SECTION 1 SCHEMATIC
9. LARGE SIGNAL PANEL - APD019, APD020 & APD021- SECTION 2 SCHEMATIC
10. LARGE SIGNAL PANEL - APD019, APD020 & APD021- SECTION 3 SCHEMATIC
11. DIGITAL CONVERGENCE PANEL - A10688 - SECTION 1 SCHEMATIC
12. DIGITAL CONVERGENCE PANEL - A10688 - SECTION 2 SCHEMATIC
13. DIGITAL CONVERGENCE PANEL - A10688 - SECTION 3 SCHEMATIC
14. RED CRT PANEL SCHEMATIC
15. GREEN CRT PANEL SCHEMATIC
16. BLUE CRT PANEL SCHEMATIC
17. IR RECEIVER ASSEMBLY SCHEMATIC
18. SWITCH PANEL SCHEMATIC
19. SMALL SIGNAL PANEL - ASG051 & ASG052 - CBA (TOP VIEW)
20. SMALL SIGNAL PANEL - ASG051 & ASG052 - CBA (BOTTOM VIEW)
21. LARGE SIGNAL PANEL CBA (TOP VIEW)
22. LARGE SIGNAL PANEL CBA (BOTTOM VIEW)
23. DIGITAL CONVERGENCE PANEL - CBA (TOP VIEW)
24. DIGITAL CONVERGENCE PANEL - CBA (BOTTOM VIEW)
25. RED CRT PANEL CBA (TOP VIEW)
26. RED CRT PANEL CBA (BOTTOM VIEW)
27. GREEN CRT PANEL CBA (TOP VIEW)
28. GREEN CRT PANEL CBA (BOTTOM VIEW)
29. BLUE CRT PANEL CBA (TOP VIEW)
30. BLUE CRT PANEL CBA (BOTTOM VIEW)
31. IR RECEIVER ASSEMBLY CBA
32. SWITCH PANEL CBA

REFER TO SAFETY GUIDELINES

SAFETY NOTICE: ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

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Philips Consumer Electronics

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Knoxville, TN 37914

Manual 7573
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Safety Notes

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GENERAL SAFETY NOTES

IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all Philips Consumer Electronics Company** equipment. The service procedures recommended by Philips and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various **CAUTIONS** and **NOTICES** which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these **CAUTIONS** and **NOTICES ARE NOT EXHAUSTIVE**. Philips could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Philips has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Philips must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

** Hereafter throughout this manual, Philips Consumer Electronics Company will be referred to as Philips.

WARNING

Critical components having special safety characteristics are identified with a ⚠ or **"S"** by the Ref. No. in the parts list and enclosed within a broken line* (where several critical components are grouped in one area) along with the safety symbol ⚠ on the schematics or exploded views. Use of substitute replacement parts which do not have the same specified safety characteristics may create shock, fire, or other hazards. Under no circumstances should the original design be modified or altered without written permission from Philips. Philips assumes no liability, express or implied, arising out of any unauthorized modification of design. Servicer assumes all liability.

- Broken Line _____ _ _____ _ _____ _ _____

SAFETY CHECKS

After the original service problem has been corrected, a complete safety check should be made. Be sure to check over the entire set, not just the areas where you have worked. Some previous servicer may have left an unsafe condition, which could be unknowingly passed on to Your customer. Be sure to check all of the following:

FIRE AND SHOCK HAZARD
IMPLOSION
X-RADIATION
LEAKAGE CURRENT COLD CHECK
LEAKAGE CURRENT HOT CHECK
PICTURE TUBE REPLACEMENT

FIRE AND SHOCK HAZARD

1. Be sure all components are positioned in such a way as to avoid the possibility of adjacent component shorts. This is especially important on those chassis which are transported to and from the service shop.

2. Never release a repaired unit unless all protective devices such as insulators, barriers, covers, strain reliefs, and other hardware have been installed in accordance with the original design.

3. Soldering and wiring must be inspected to locate possible cold solder joints, solder splashes, sharp solder points, frayed leads, pinched leads, or damaged insulation (including the ac cord). Be certain to remove loose solder balls and all other loose foreign particles.

4. Check across-the-line components and other components for physical evidence of damage or deterioration and replace if necessary. Follow original layout, lead length, and dress.

5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces or edges must be avoided.

6. Critical components having special safety characteristics are identified with an **'S'** by the Ref. No. in the parts list and enclosed within a broken line* (where several critical components are grouped in one area) along with the safety symbol ⚠ on the schematic diagrams and /or exploded views.

7. When servicing any unit, always use a separate isolation transformer for the chassis. Failure to use a separate isolation transformer may expose you to possible shock hazard, and may cause damage to servicing instruments.

8. Many electronic products use a polarized ac line cord (one wide pin on the plug). Defeating this safety feature may create a potential hazard to the servicer and the user. Extension cords which do not incorporate the polarizing feature should never be used.

9. After reassembly of the unit, always perform an **ac leakage test** or resistance test from the line cord to all exposed metal parts of the cabinet. Also, check all metal control shafts (with knobs removed), antenna terminals, handles, screws, etc., to be sure the unit may be safely operated without danger of electrical shock.

*** Broken line** _____ _ _____ _ _____ _ _____

IMPLOSION

1. All picture tubes used in current model receivers are equipped with an integral implosion system. Care should always be used, and safety glasses worn, whenever handling any picture tube. Avoid scratching or otherwise damaging the picture tube during installation.

2. Use only replacement tubes specified by the manufacturer.

X-RADIATION

1. Be sure procedures and instructions to all your service personnel cover the subject of X-radiation. Potential sources of X-rays in TV receivers are the picture tube and the high voltage circuits. The basic precaution which must be exercised is to keep the high voltage at the factory recommended level.

2. To avoid possible exposure to X-radiation and electrical shock, only the manufacturer's specified anode connectors must be used.

3. It is essential that the service technician has an accurate HV meter available at all times. The calibration of this meter should be checked periodically against a reference standard.

4. When the HV circuitry is operating properly there is no possibility of an X-radiation problem. High voltage should always be kept at the manufacturer's rated value - no higher - for optimum performance. Every time a color set is serviced, the brightness should be run up and down while monitoring the HV with a meter to be certain that the HV is regulated correctly and does not exceed the specified value. We suggest that you and your technicians review test procedures so that HV and HV regulation are always checked as a standard servicing procedure, and the reason for this prudent routine is clearly understood by everyone. It is important to use an accurate and reliable HV meter. It is recommended that the HV reading be recorded on each customer's invoice, which will demonstrate a proper concern for the customer's safety.

5. When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, reduce the line voltage by means of a Variac to bring the HV into acceptable limits while troubleshooting. Do not operate the chassis longer than necessary to locate the cause of the excessive HV.

6. New picture tubes are specifically designed to withstand higher operating voltages without creating undesirable X-radiation. It is strongly recommended that any shop test fixture which is to be used with the new higher voltage chassis be equipped with one of the new type tubes designed for this service. Addition of a permanently connected HV meter to the shop test fixture is advisable. The CRT types used in these new sets should never be replaced with any other types, as this may result in excessive X-radiation.

7. It is essential to use the specified picture tube to avoid a possible X-radiation problem.

8. Most TV receivers contain some type of emergency "Hold Down" circuit to prevent HV from rising to excessive levels in the presence of a failure mode. These various circuits should be understood by all technicians servicing them, especially since many hold down circuits are inoperative as long as the receiver performs normally.

LEAKAGE CURRENT COLD CHECK

1. Unplug the ac line cord and connect a jumper between the two prongs of the plug.

2. Turn on the power switch.

3. Measure the resistance value between the jumpered ac plug and all exposed cabinet parts of the receiver, such as screw heads, antennas, and control shafts. When the exposed metallic part has a return path to the chassis, the reading should be between 1 megohm and 5.2 megohms. When the exposed metal does not have a return path to the chassis, the reading must be infinity. Remove the jumper from the ac line cord.

LEAKAGE CURRENT HOT CHECK

1. Do not use an isolation transformer for this test. Plug the completely reassembled receiver directly into the ac outlet.

2. Connect a **1.5k, 1OW resistor** paralleled by a **0.15uF. capacitor** between each exposed metallic cabinet part and a **good earth ground** such as a water pipe, as shown below.

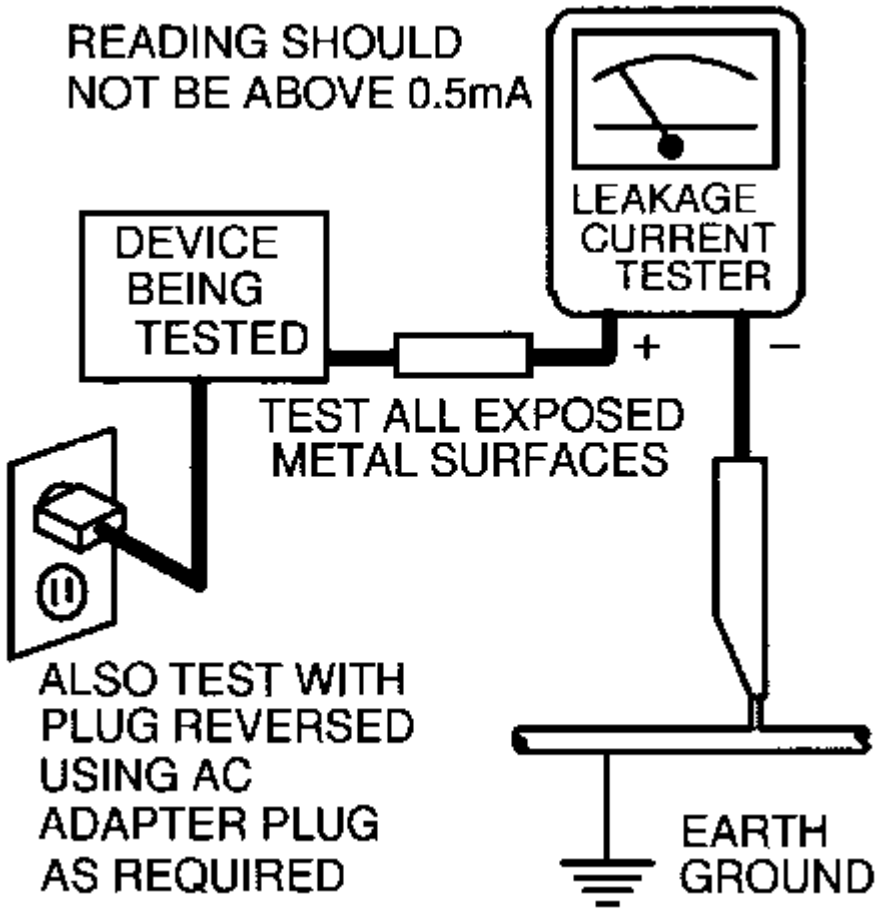
3. Use an ac voltmeter with at least 5000 ohms/volt sensitivity to measure the potential across the resistor.

4. The potential at any point should not exceed 0.75 volts. A leakage current tester may be used to make this test; leakage current must not exceed 0.5milliamp. If a measurement is outside of the specified limits, there is a possibility of shock hazard. The receiver should be repaired and rechecked before returning it to the customer.

5. **Repeat the above procedure with the ac plug reversed.** (Note: An ac adapter is necessary when a polarized plug is used. Do not defeat the polarizing feature of the plug.)

OR

With the instrument completely reassembled, plug the AC line cord directly into a 120V AC outlet. **(Do not use an isolation transformer during this test.)** Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). **With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamp. Reverse the instrument power cord plug in the outlet and repeat the test. See graphic below.**



PICTURE TUBE REPLACEMENT

The primary source of X-radiation in this television receiver is the picture tube. The picture tube utilized in this chassis is specially constructed to limit X-radiation emissions. For continued X-radiation protection, the replacement tube must be the same type as the original, including suffix letter, or a Philips approved type.

PARTS REPLACEMENT

Many electrical and mechanical parts in Philips television sets have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. The use of a substitute part which does not have the same safety characteristics as the Philips recommended replacement part shown in this service manual may create shock, fire, or other hazards

TV SAFETY NOTES

SAFETY CHECKS
IMPLOSION

X-RADIATION
PICTURE TUBE REPLACEMENT
PARTS REPLACEMENT

WARNING

Before removing the CRT anode cap, turn the unit **OFF** and short the **HIGH VOLTAGE** to the **CRT DAG** ground.

SERVICE NOTE: The **CRT DAG** is not at chassis ground.

TV-VCR COMBI SAFETY NOTES

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

SAFETY PRECAUTIONS FOR TV CIRCUITS

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:

   a. Be sure that no built-in protective devices are defective or have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.

   b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the picture tube and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.

   c. Do a **LEAKAGE CURRENT CHECK**

   ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

d. **X-Radiation and High Voltage Limits** - Because the picture tube is the primary potential source of X-radiation in solid-state TV receivers, it is specially constructed to prohibit X-radiation emissions. For continued X-radiation protection, the replacement picture tube must be the same type as the original. Also, because the picture tube shields and mounting hardware perform an X-radiation protection function, they must be correctly in place. High voltage must be measured each time servicing is performed that involves B+, horizontal deflection or high voltage. Correct operation of the X-radiation protection circuits also must be reconfirmed each time they are serviced. (X-radiation protection circuits also may be called "horizontal disable" or "hold down.") Read and apply the high voltage limits and, if the chassis is so equipped, the X-radiation protection circuit specifications given on instrument labels and in the **Product Safety & X-Radiation** Warning note on the service data chassis schematic. High voltage is maintained within specified limits by close tolerance safety-related components/adjustments in the high-voltage circuit. If high voltage exceeds specified limits, check each component specified on the chassis schematic and take corrective action.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.

3. **Design Alteration Warning** - Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4**. Picture Tube Implosion Protection Warning** - The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; because of potential hazard, do not try to remove such "permanently attached" yokes from the picture tube.

5. **Hot Chassis Warning**

a. Some TV receiver chassis are electrically connected directly to one conductor of the ac power cord and may be serviced safely without an isolation transformer only if the ac power plug is inserted so that the chassis is connected to the ground side of the ac power source. To confirm that the ac power plug is inserted correctly, with an ac voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.OV is obtained, remove and reinsert the ac power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.

b. Some TV receiver chassis normally have 85Vac (RMS) between chassis and earth ground regardless of the ac plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the ac power source, for both personnel and test equipment protection. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the ac power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.

6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: **a.** near sharp edges, **b.** near thermally hot parts - be sure that leads and components do not touch

thermally hot parts, **c.** the ac supply, **d.** high voltage, and **e.** antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check ac power cord for damage.

7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

PRECAUTIONS DURING SERVICE

A. Parts identified by the ⚠ symbol are critical for safety. Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:
1) Wires covered with PVC tubing
2) Double insulated wires
3) High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:
1) Insulation Tape
2) PVC tubing
3) Spacers
4) Insulators for transistors

E. When replacing ac primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

G. Check that replaced wires do not contact sharp edged or pointed parts.

H. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K**. Crimp type wire connector**
When replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, in order to prevent shock hazards, perform carefully and precisely the following steps.

Replacement procedure
1) Remove the old connector by cutting the wires at a point close to the connector. **Important:** Do not re-use a connector (discard it).

2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.
4) Use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

L. When connecting or disconnecting the VCR connectors, first, disconnect the ac plug from the ac supply socket.

SAFETY CHECK AFTER SERVICING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

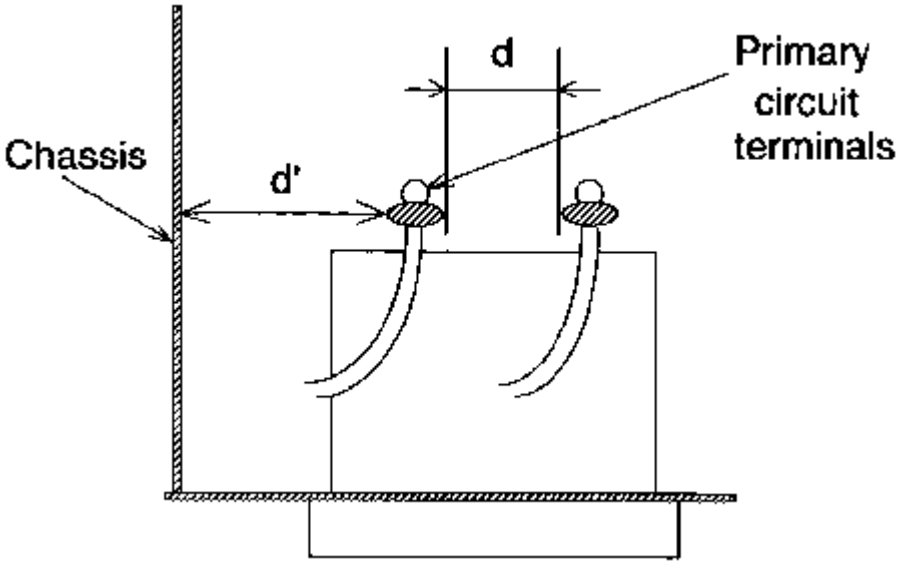
1. **Clearance Distance**

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See graphic bllow)

Table 1 : Ratings for selected area

AC Line Voltage	Region	Clearance Distance (d) (d')
110 to 130 V	USA or CANADA	> 3.2 mm (0.126 inches)

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.



2. LEAKAGE CURRENT CHECKS

VCR SAFETY NOTES

FIRE & SHOCK HAZARD (VCR)

1. Be sure that all components are positioned in such a way to avoid possibility of shorts to adjacent components. This is especially important on those chassis which are transported to and from the repair shop.

2. Always replace all protective devices such as insulators and barriers after working on a set.

3. Check for damaged insulation on wires including the ac cord.

4. Check across-the-line components for damage and replace if necessary.

5. After re-assembly of the unit, always perform an ac leakage test on the exposed metallic parts of the cabinet such as the knobs, antenna terminals, etc. to be sure the set is safe to operate without danger of electrical shock. **Do not use a line isolation transformer during this test.** Use an ac voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm 10 wan resistor, paralleled by 0.15 MFD ac type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the ac voltage across the combination 1500 ohm resistor and 0.15 MFD capacitor. Reverse the ac plug on the set and repeat ac voltage measurements again for each exposed metallic part. Voltage measured must not exceed O.6 volts R.M.S. This corresponds to 0.4 milliamp ac. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

GENERAL

Power Supply-This receiver is designed for operation on 120 Volts, 6OHz alternating current (ac) only. Never connect to a supply having a different frequency or voltage.

IMPORTANT NOTICE

This device employs many circuits, components, and mechanical parts designed for protection against fire, shock and RF interference. For continued safety any servicing should be performed by qualified personnel and exact replacement parts should be used. Under no circumstances should the original design be altered.

PRODUCT SAFETY GUIDELINES FOR ALL PRODUCTS

CAUTION: Do not modify any circuit. Service work should be performed only after you are thoroughly familiar with all of the following safety checks. Risk of potential hazards and injury to the user increases if safety checks are not adhered to.
USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING.

PREVENTION OF ELECTROSTATIC DISCHARGE (ESD)

Some semiconductor solid state devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices, Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.

4. Use only an anti-static solder removal device. Some solder removal devices not classified as "antistatic (ESD protected)" can generate an electrical charge sufficient to damage ES devices.

5. Do not use freon·propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION : Be sure no power is applied to the chassis or circuit and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your feet from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device.)

NOTE to CATV system Installer:
This reminder is provided to call the CATV system installer's attention to article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Philips Consumer Electronics

Technical Service Data

Service and Quality
Service Publications Dept.
One Philips Drive
P.O. Box 14810
Knoxville, TN 37914

Manual 7573
Model no.: 8P5431C
First Publish: 04-19-2004
Rev. Date: 11-12-98
Print Date: 4/19/2004

Mechanical Diagrams

REFER TO SAFETY GUIDELINES

SAFETY NOTICE: ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

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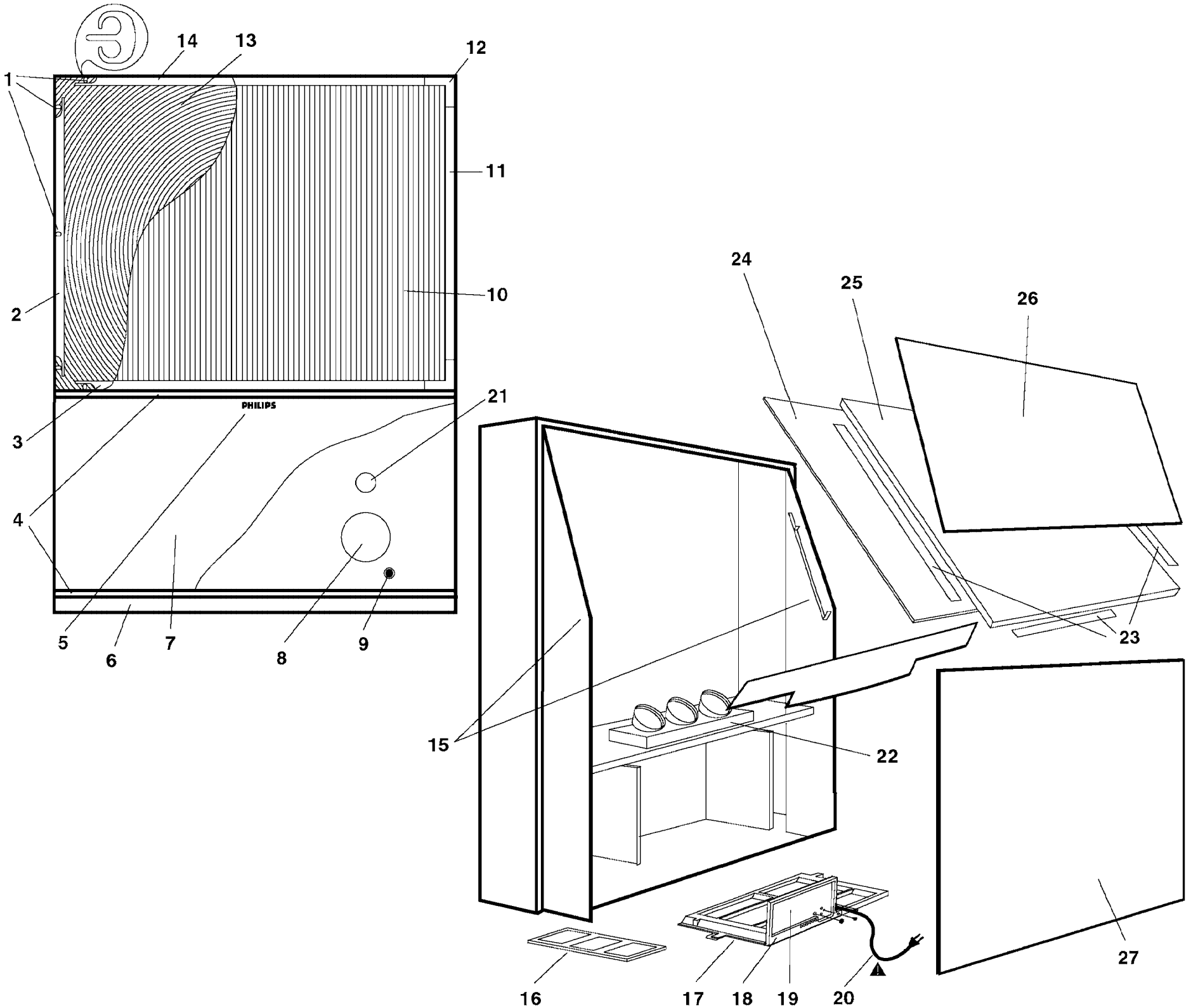
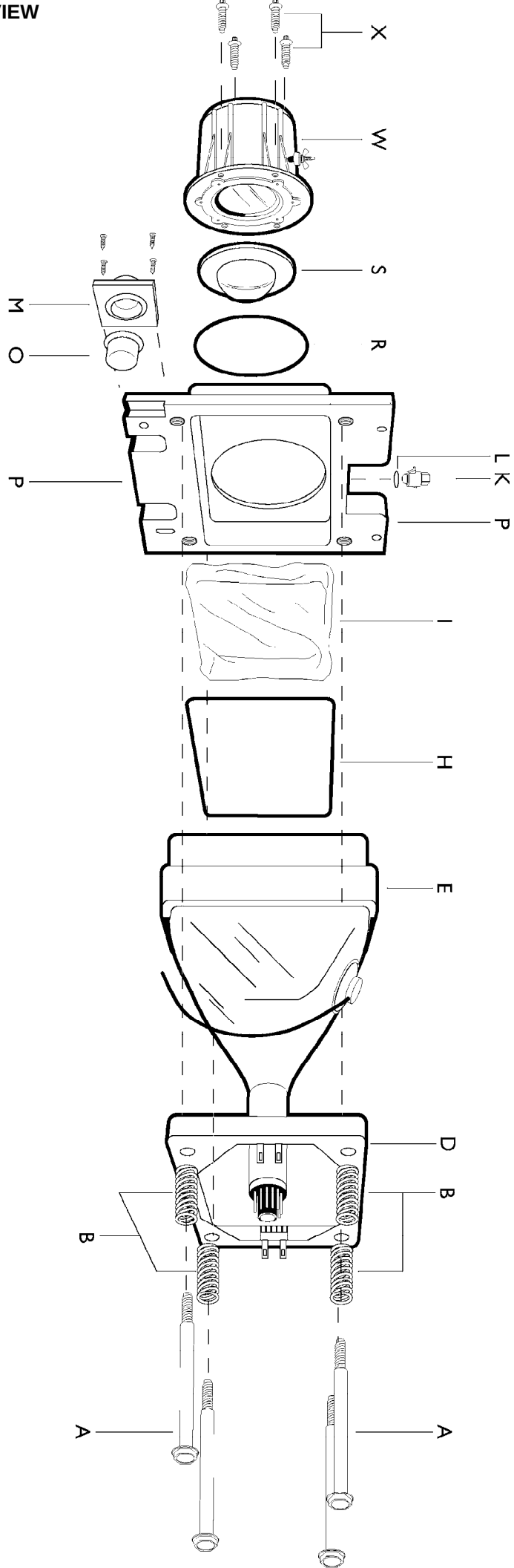


CABINET EXPLODED VIEW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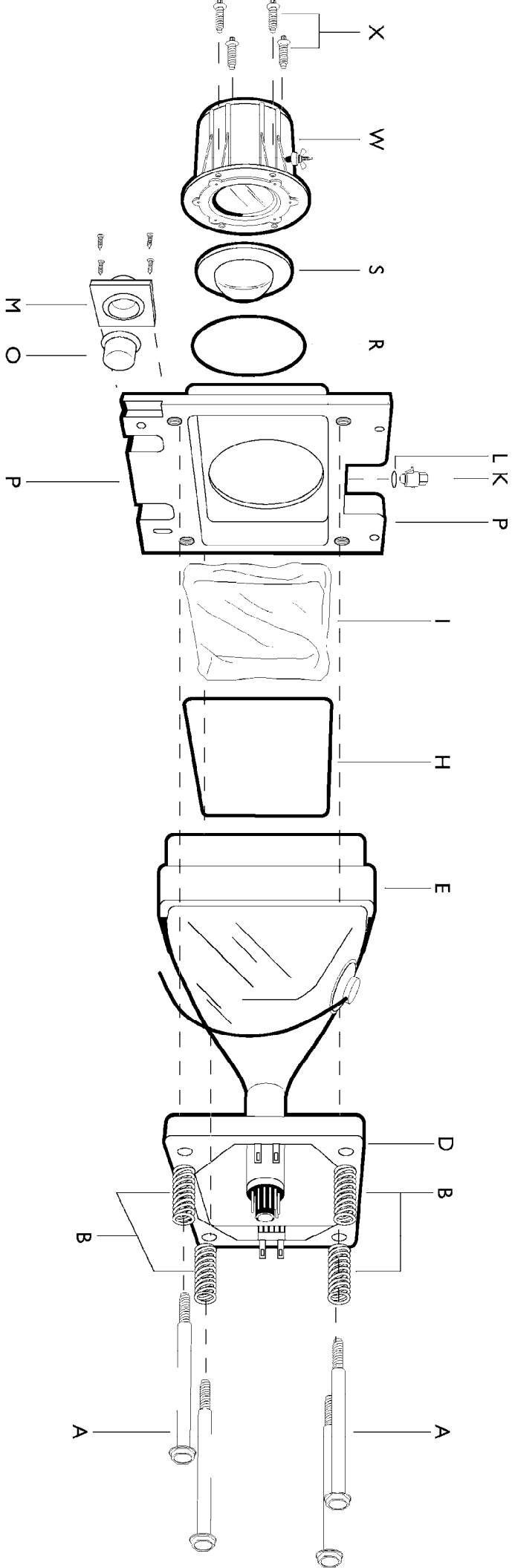
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Philips Consumer Electronics

Technical Service Data

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Parts List

REFER TO SAFETY GUIDELINES

SAFETY NOTICE: ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

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CBA's

	CBA's	
CBA	Large Signal Panel	4835 219 77751
CBA	Small Signal Panel	4835 219 77756
CBA	Digital Convergence Panel.	4835 219 77788
CBA	Green CRT Panel.	4835 219 77782
CBA	Red CRT Panel.	4835 219 77783
CBA	Blue CRT Panel	4835 219 77784
CBA	Customer Control Assembly.	4835 219 77764
CBA	IR Receiver Panel.	0000 00A RR023
CBA	Switch Panel	4835 219 77786
CBA	Remote Transmitter UR714	4835 219 17699

CONVERGENCE PANEL

	CONVERGENCE PANEL	
C11	1000uF., 50V, Electrolytic	3198 026 51020
C13	470uF., 25V, Electrolytic.	4835 124 47576
C14	100uF., 25V, Electrolytic.	3198 025 31010
C16	100pF., 5%, 50V, Ceramic	3198 016 01010
C17	100pF., 5%, 50V, Ceramic	3198 016 01010
C19	0.1uF., 50V, Ceramic	3198 023 21040
C20	0.01uF.,10%, 100V, Polyester	4835 121 47232
C21	2700pF.,10%, 100V, Polyester	4835 122 47487
C22	220pF., 5%, 50V, Ceramic	3198 016 02210
C23	220pF., 5%, 50V, Ceramic	3198 016 02210
C24	10pF., 5%, 50V, Ceramic.	3198 016 01090
C25	0.1uF., 50V, Ceramic	3198 023 21040
C29	0.1uF., 50V, Ceramic	3198 023 21040
C30	0.1uF., 20%, 50V, Ceramic.	2238 581 16741
C31	27pF., 5%, 50V, Ceramic.	3198 016 02790
C32	330pF., 10%, 50V, Ceramic Disc	3198 019 13310
C33	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C34	0.1uF., 50V, Ceramic	3198 023 21040
C35	220uF., 25V, Electrolytic.	3198 025 32210
C36	22uF., 20%, 50V, Electrolytic.	3198 025 52290
C37	0.1uF., 20%, 50V, Ceramic.	2238 581 16741
C38	1000uF., 25V, Electrolytic	3198 026 31020
C39	27pF., 5%, 50V, Ceramic.	3198 016 02790
C41	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C42	0.1uF., 50V, Ceramic	3198 023 21040
C50	0.1uF., 50V, Ceramic	3198 023 21040
C51	100pF., 5%, 50V, Ceramic	3198 016 01010
C52	0.1uF., 20%, 50V, Ceramic.	2238 581 16741
C71	100pF., 5%, 50V, Ceramic	3198 016 01010
C72	100pF., 5%, 50V, Ceramic	3198 016 01010
C73	100pF., 5%, 50V, Ceramic	4835 122 87025
C74	27pF., 5%, 50V, Ceramic.	3198 016 02790
C81	1000uF., 50V, Electrolytic	3198 026 51020
C83	470uF., 25V, Electrolytic.	4835 124 47576
C84	100uF., 25V, Electrolytic.	3198 025 31010
C85	0.1uF., 63V, Metalized Polyester	4835 121 47602
C86	0.1uF., 63V, Metalized Polyester	4835 121 47602
C87	1000uF., 16V, Electrolytic	3198 026 21020
C88	0.1uF., 50V, Ceramic	3198 023 21040
C100	0.022uF., 5%, 50V, Polyester.	4835 122 47091
C101	39pF., 50V, Ceramic Disc	4835 122 47651
C106	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C107	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C108	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C109	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C110	0.1uF., 50V, Ceramic	3198 023 21040
C111	0.1uF., 50V, Ceramic	3198 023 21040
C112	270pF., 10%, 50V, Ceramic Disc	4835 122 47668
C127	0.22uF., 100V, Metalized Polyester	4835 121 47038
C150	0.022uF.,5%, 50V, Polyester	4835 122 47091
C151	39pF., 50V, Ceramic Disc	4835 122 47651
C152	0.01uF.,10%, 100V, Polyester	4835 121 47232
C153	0.01uF.,10%, 100V, Polyester	4835 121 47232
C157	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C158	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C162	270pF., 10%, 50V, Ceramic Disc	4835 122 47668
C173	470pF., 5%, 50V, Ceramic	3198 016 04710
C174	470pF., 5%, 50V, Ceramic	3198 016 04710
C175	0.1uF., 50V, Ceramic	3198 023 21040
C176	0.1uF., 50V, Ceramic	3198 023 21040
C177	0.22uF., 100V, Metalized Polyester	4835 121 47038
C180	1uF., 20%, 50V, Electrolytic	3198 025 51080
C200	0.022uF., 5%, 50V, Polyester.	4835 122 47091
C201	39pF., 50V, Ceramic Disc	4835 122 47651
C206	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C207	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C208	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C209	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C210	0.1uF., 50V, Ceramic	3198 023 21040
C211	0.1uF., 50V, Ceramic	3198 023 21040
C212	270pF., 10%, 50V, Ceramic Disc	4835 122 47668
C227	0.22uF., 100V, Metalized Polyester	4835 121 47038
C250	0.022uF.,5%, 50V, Polyester	4835 122 47091
C251	39pF., 50V, Ceramic Disc	4835 122 47651
C252	0.01uF.,10%, 100V, Polyester	4835 121 47232
C253	0.01uF.,10%, 100V, Polyester	4835 121 47232
C257	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C258	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C262	270pF., 10%, 50V, Ceramic Disc	4835 122 47668
C265	0.1uF., 63V, Metalized Polyester	4835 121 47602
C273	470pF., 5%, 50V, Ceramic	3198 016 04710
C274	470pF., 5%, 50V, Ceramic	3198 016 04710
C275	0.1uF., 50V, Ceramic	3198 023 21040
C276	0.1uF., 50V, Ceramic	3198 023 21040
C277	0.22uF., 100V, Metalized Polyester	4835 121 47038
C280	1uF., 20%, 50V, Electrolytic	3198 025 51080
C300	0.022uF.,5%, 50V, Polyester	4835 122 47091
C301	39pF., 50V, Ceramic Disc	4835 122 47651
C306	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C307	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C308	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C309	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C310	0.1uF., 50V, Ceramic	3198 023 21040
C311	0.1uF., 50V, Ceramic	3198 023 21040
C312	270pF., 10%, 50V, Ceramic Disc	4835 122 47668
C327	0.22uF., 100V, Metalized Polyester	4835 121 47038
C350	0.022uF.,5%, 50V, Polyester	4835 122 47091
C351	39pF., 50V, Ceramic Disc	4835 122 47651
C352	0.01uF.,10%, 100V, Polyester	4835 121 47232
C353	0.01uF.,10%, 100V, Polyester	4835 121 47232
C357	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C358	2.2uF., 20%, 50V, Electrolytic	3198 025 52280
C362	270pF., 10%, 50V, Ceramic Disc	4835 122 47668
C373	470pF., 5%, 50V, Ceramic	3198 016 04710
C374	470pF., 5%, 50V, Ceramic	3198 016 04710
C375	0.1uF., 50V, Ceramic	3198 023 21040
C376	0.1uF., 50V, Ceramic	3198 023 21040
C377	0.22uF., 100V, Metalized Polyester	4835 121 47038
C380	1uF., 20%, 50V, Electrolytic	3198 025 51080
R10	8.2k, 5%, 1/10W, Carbon Film	4835 111 37448
R11	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R12	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R13	15k, 5%, 1/10W, Carbon Film.	4835 111 37458
R14	3.3k, 5%, 1/10W, Carbon Film	4835 111 37247
R18	100 ohm, 5%, 1/10W, Carbon Film.	4835 111 37432
R19	100 ohm, 5%, 1/10W, Carbon Film.	4835 111 37432
R20	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R21	100 ohm, 5%, 1/10W, Carbon Film.	4835 111 37432
R22	3.3k, 5%, 1/2W, Metal Film	4835 116 57714
R24	1.5k, 5%, 1/2W, Metal Film	4835 116 57697
R25	33k, 5%, 1/10W, Carbon Film.	4835 111 37248
R27	47k, 5%, 1/10W, Carbon Film.	4835 111 27052
R28	2.7k, 5%, 1/10W, Carbon Film	4835 111 27076
R29	220 ohm, 5%, 1/2W, Metal Film.	4835 116 57705
R30	1.5k, 5%, 1/10W, Carbon Film	4835 111 37437
R31	100 ohm, 5%, 1/10W, Carbon Film.	4835 111 37432
R32	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R33	47k, 5%, 1/10W, Carbon Film.	4835 111 27052
R34	47k, 5%, 1/10W, Carbon Film.	4835 111 27052
R35	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R35	1k, 5%, 1/10W, Carbon Film.	4822 051 10102
R36	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R37	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R38	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R41	47k, 5%, 1/10W, Carbon Film.	4835 111 27052
R42	100 ohm, 5%, 1/10W, Carbon Film.	4835 111 37432
R47	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R48	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R49	2.2k, 5%, 1/2W, Metal Film	4835 110 47006
R54	100 ohm, 5%, 3W, Metal Oxide	2120 105 92503
R55	1.5k, 5%, 1/2W, Metal Film	4835 116 57697
R56	100 ohm, 5%, 3W, Metal Oxide	2120 105 92503
R57	1.5k, 5%, 1/2W, Metal Film	4835 116 57697
R78	6.8k, 5%, 1/10W, Carbon Film	4835 111 37272
R79	2.4k, 5%, 1/2W, Metal Film	2322 187 53242
R80	10k, 5%, 1/2W, Metal Film.	4835 116 57686
R82	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R82	1k, 5%, 1/10W, Carbon Film.	4822 051 10102
R83	47k, 5%, 1/10W, Carbon Film.	4835 111 27052
R84	47k, 5%, 1/2W, Metal Film.	4835 116 57724
R86	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R87	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R88	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R89	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R90	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R91	100 ohm, 5%, 1W, Metal Oxide	2120 105 90191
R92	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R93	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R94	1.5k, 5%, 1/2W, Metal Film	4835 116 57697
R95	1.5k, 5%, 1/2W, Metal Film	4835 116 57697
R98	2.94k, 1%, 0.4W, Metal Film.	4835 116 57649
R99	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R100	1.3k, 5%, 1/2W, Metal Film	4835 116 57694
R101	2.7k, 5%, 1/10W, Carbon Film	4835 111 27076
R102	220 ohm, 5%, 1/2W, Metal Film.	4835 116 57705
R103	820 ohm, 5%, 1/2W, Metal Film.	4835 116 57741
R104	6.8k, 5%, 1/2W, Metal Film	4835 116 57736
R105	1.2k, 5%, 1/10W, Carbon Film	4835 111 27042
R106	470 ohm, 5%, 1/10W, Carbon Film.	4835 111 37259

S = Safety Part Be sure to use exact replacement part.

R107	330 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37443
R108	150 ohm, 5%, 1/3W, Metal Film.	4835 116 57151
R109	100 ohm, 5%, 1/3W, Metal Film.	4835 116 87002
R110	18k, 5%, 1/2W, Metal Film.	4835 110 57187
R111	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R112	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R113	680 ohm, 5%, 1/2W, Metal Film.	4835 116 57735
R114	12 ohm, 5%, 1/3W, Metal Film	4835 116 57164
R115	12 ohm, 5%, 1/3W, Metal Film	4835 116 57164
R127	10 ohm, 5%, 1/2W, Metal Film	4835 116 57097
R147	2.94k, 1%, 0.4W, Metal Film.	4835 116 57649
R148	2.7k, 5%, 1/10W, Carbon Film	4835 111 27076
R149	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R150	1.3k, 5%, 1/10W, Carbon Film	4835 111 27069
R152	220 ohm, 5%, 1/2W, Metal Film.	4835 116 57705
R153	820 ohm, 5%, 1/2W, Metal Film.	4835 116 57741
R154	6.8k, 5%, 1/10W, Carbon Film	4835 111 37272
R155	1.2k, 5%, 1/10W, Carbon Film	4835 111 27042
R156	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R157	330 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37443
R158	150 ohm, 5%, 1/3W, Metal Film.	4835 116 57151
R159	100 ohm, 5%, 1/3W, Metal Film.	4835 116 87002
R160	18k, 5%, 1/2W, Metal Film.	4835 110 57187
R161	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R162	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R163	560 ohm, 5%, 1/2W, Metal Film.	4835 116 57731
R177	10 ohm, 5%, 1/2W, Metal Film	4835 116 57097
R179	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R180	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R182	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R183	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R198	2.94k, 1%, 0.4W, Metal Film.	4835 116 57649
R199	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R200	1.3k, 5%, 1/2W, Metal Film	4835 116 57694
R201	2.7k, 5%, 1/10W, Carbon Film	4835 111 27076
R202	220 ohm, 5%, 1/2W, Metal Film.	4835 116 57705
R203	820 ohm, 5%, 1/2W, Metal Film.	4835 116 57741
R204	6.8k, 5%, 1/2W, Metal Film	4835 116 57736
R205	1.2k, 5%, 1/10W, Carbon Film	4835 111 27042
R206	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R207	330 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37443
R208	150 ohm, 5%, 1/3W, Metal Film.	4835 116 57151
R209	100 ohm, 5%, 1/3W, Metal Film.	4835 116 87002
R210	18k, 5%, 1/2W, Metal Film.	4835 110 57187
R211	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R212	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R213	680 ohm, 5%, 1/2W, Metal Film.	4835 116 57735
R214	12 ohm, 5%, 1/3W, Metal Film	4835 116 57164
R215	12 ohm, 5%, 1/3W, Metal Film	4835 116 57164
R227	10 ohm, 5%, 1/2W, Metal Film	4835 116 57097
R247	3K65 1%, 0.4W, Metal Film.	4835 116 57462
R248	2.7k, 5%, 1/10W, Carbon Film	4835 111 27076
R249	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R250	1.3k, 5%, 1/10W, Carbon Film	4835 111 27069
R252	220 ohm, 5%, 1/2W, Metal Film.	4835 116 57705
R253	820 ohm, 5%, 1/2W, Metal Film.	4835 116 57741
R254	6.8k, 5%, 1/2W, Metal Film	4835 116 57736
R255	1.2k, 5%, 1/10W, Carbon Film	4835 111 27042
R256	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R257	330 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37443
R258	150 ohm, 5%, 1/3W, Metal Film.	4835 116 57151
R259	100 ohm, 5%, 1/3W, Metal Film.	4835 116 87002
R260	18k, 5%, 1/2W, Metal Film.	4835 110 57187
R261	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R262	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R263	560 ohm, 5%, 1/2W, Metal Film.	4835 116 57731
R277	10 ohm, 5%, 1/2W, Metal Film	4835 116 57097
R279	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R280	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R282	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R283	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R298	2.94k, 1%, 0.4W, Metal Film.	4835 116 57649
R299	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R300	1.3k, 5%, 1/2W, Metal Film	4835 116 57694
R301	2.7k, 5%, 1/10W, Carbon Film	4835 111 27076
R302	220 ohm, 5%, 1/2W, Metal Film.	4835 116 57705
R303	820 ohm, 5%, 1/2W, Metal Film.	4835 116 57741
R304	6.8k, 5%, 1/2W, Metal Film	4835 116 57736
R305	1.2k, 5%, 1/10W, Carbon Film	4835 111 27042
R306	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R307	330 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37443
R308	150 ohm, 5%, 1/3W, Metal Film.	4835 116 57151
R309	100 ohm, 5%, 1/3W, Metal Film.	4835 116 87002
R310	18k, 5%, 1/2W, Metal Film.	4835 110 57187
R311	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R312	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R313	680 ohm, 5%, 1/2W, Metal Film.	4835 116 57735
R314	12 ohm, 5%, 1/3W, Metal Film	4835 116 57164
R315	12 ohm, 5%, 1/3W, Metal Film	4835 116 57164
R327	10 ohm, 5%, 1/2W, Metal Film	4835 116 57097
R347	2.43k, 1%, 0.4W, Metal Film.	4835 116 57028
R348	2.7k, 5%, 1/10W, Carbon Film	4835 111 27076
R349	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R350	1.3k, 5%, 1/10W, Carbon Film	4835 111 27069
R352	220 ohm, 5%, 1/2W, Metal Film.	4835 116 57705
R353	820 ohm, 5%, 1/2W, Metal Film.	4835 116 57741
R354	6.8k, 5%, 1/2W, Metal Film	4835 116 57736
R355	1.2k, 5%, 1/10W, Carbon Film	4835 111 27042
R356	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R357	330 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37443
R358	150 ohm, 5%, 1/3W, Metal Film.	4835 116 57151
R359	100 ohm, 5%, 1/3W, Metal Film.	4835 116 87002
R360	18k, 5%, 1/2W, Metal Film.	4835 110 57187
R361	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R362	5.1 ohm, 5%, 1W, Metal Oxide	4835 116 57121
R363	560 ohm, 5%, 1/2W, Metal Film.	4835 116 57731
R377	10 ohm, 5%, 1/2W, Metal Film	4835 116 57097
R379	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R380	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R382	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
R383	0.33 ohm, 5%, 5W, Metal Oxide.	4835 116 67152
D5	Diode, BAS216.	4835 130 37905
D6	Diode, BAS216.	4835 130 37905
D7	Diode, BAS216.	4835 130 37905
D10	Diode, BAS216.	4835 130 37905
D11	Diode, BAS216.	4835 130 37905
D12	Diode, BAS216.	4835 130 37905
D13	Diode, BAS216.	4835 130 37905
D100	Diode, 1N4150.	4835 130 37934
D111	Diode, BAS216.	4835 130 37905
D112	Diode, BAS216.	4835 130 37905
D113	Diode, BAS216.	4835 130 37905
D114	Diode, BAS216.	4835 130 37905
D150	Diode, 1N4150.	4835 130 37934
D200	Diode, 1N4150.	4835 130 37934
D211	Diode, BAS216.	4835 130 37905
D212	Diode, BAS216.	4835 130 37905
D213	Diode, BAS216.	4835 130 37905
D214	Diode, BAS216.	4835 130 37905
D250	Diode, 1N4150.	4835 130 37934
D300	Diode, 1N4150.	4835 130 37934
D311	Diode, BAS216.	4835 130 37905
D312	Diode, BAS216.	4835 130 37905
D313	Diode, BAS216.	4835 130 37905
D314	Diode, BAS216.	4835 130 37905
D350	Diode, 1N4150.	4835 130 37934
VR1	Diode, BB909A.	4835 130 37949
IC6	IC MC7805CT 13.59MHz Voltage Regulator	4835 209 87486
IC10	IC NE5532N PLL Filter.	4835 209 17038
IC11	IC ST24W08B6 EEPROM.	4835 209 88556
IC13	IC UPD65654GF-260 Convergence Spline Processor.	4835 209 88475
IC100	IC NE5532N Green Output Amplifier. . .	4835 209 17038
IC165	IC TDA1313/N1 Green DAC.	4835 209 88476
IC200	IC NE5532N Blue Output Amplifier . . .	4835 209 17038
IC265	IC TDA1313/N1 Blue DAC	4835 209 88476
IC300	IC NE5532N Red Output Amplifier. . . .	4835 209 17038
IC365	IC TDA1313/N1 Red DAC.	4835 209 88476
Q5	Transistor, +15 Volt Regulator, BD139.	4835 130 47642
Q6	Transistor, Intensity Buffer,.	4835 130 47086
Q7	Transistor, Fast Blanking Buffer, SMBT1159-2T	4835 130 47086
Q8	Transistor, Horizontal Pulse Buffer, SMBT1159	4835 130 47086
Q9	Transistor, Vertical Pulse Buffer, SMBT1159-2	4835 130 47086
Q10	Transistor, 13.59MHz Voltage Controlled Oscil.	4835 209 47125
Q11	Transistor, +5.5 Volt Regulator, SPS735	4835 130 47051
Q15	Transistor, -15 Volt Regulator, BD140.	4835 130 47641
Q100	Transistor, NPN, BC547B.	4835 130 47055
Q101	Transistor, NPN, BC547B.	4835 130 47055
Q102	Transistor, NPN, BC547B.	4835 130 47055
Q103	Transistor, NPN, BC547B.	4835 130 47055
Q104	Transistor, PNP, BD140	4835 130 47641
Q105	Transistor, NPN, BD139	4835 130 47642
Q106	Transistor, NPN, SJE1331-5	4835 130 47107
Q107	Transistor, PNP, SJE1763	4835 130 47084
Q150	Transistor, NPN, BC547B.	4835 130 47055
Q151	Transistor, NPN, BC547B.	4835 130 47055
Q152	Transistor, NPN, BC547B.	4835 130 47055
Q153	Transistor, NPN, BC547B.	4835 130 47055
Q154	Transistor, PNP, BD140	4835 130 47641
Q155	Transistor, NPN, BD139	4835 130 47642
Q156	Transistor, NPN, SJE1331-5	4835 130 47107
Q157	Transistor, PNP, SJE1763	4835 130 47084
Q200	Transistor, NPN, BC547B.	4835 130 47055
Q201	Transistor, NPN, BC547B.	4835 130 47055
Q202	Transistor, NPN, BC547B.	4835 130 47055
Q203	Transistor, NPN, BC547B.	4835 130 47055
Q204	Transistor, PNP, BD140	4835 130 47641
Q205	Transistor, NPN, BD139	4835 130 47642
Q206	Transistor, NPN, SJE1331-5	4835 130 47107
Q207	Transistor, PNP, SJE1763	4835 130 47084

S = Safety Part Be sure to use exact replacement part.

Q250	Transistor, NPN, BC547B.	4835 130 47055
Q251	Transistor, NPN, BC547B.	4835 130 47055
Q252	Transistor, NPN, BC547B.	4835 130 47055
Q253	Transistor, NPN, BC547B.	4835 130 47055
Q254	Transistor, PNP, BD140	4835 130 47641
Q255	Transistor, NPN, BD139	4835 130 47642
Q256	Transistor, NPN, SJE1331-5	4835 130 47107
Q257	Transistor, PNP, SJE1763	4835 130 47084
Q300	Transistor, NPN, BC547B.	4835 130 47055
Q301	Transistor, NPN, BC547B.	4835 130 47055
Q302	Transistor, NPN, BC547B.	4835 130 47055
Q303	Transistor, NPN, BC547B.	4835 130 47055
Q304	Transistor, PNP, BD140	4835 130 47641
Q305	Transistor, NPN, BD139	4835 130 47642
Q306	Transistor, NPN, SJE1331-5	4835 130 47107
Q307	Transistor, PNP, SJE1763	4835 130 47084
Q350	Transistor, NPN, BC547B.	4835 130 47055
Q351	Transistor, NPN, BC547B.	4835 130 47055
Q352	Transistor, NPN, BC547B.	4835 130 47055
Q353	Transistor, NPN, BC547B.	4835 130 47055
Q354	Transistor, PNP, BD140	4835 130 47641
Q355	Transistor, NPN, BD139	4835 130 47642
Q356	Transistor, NPN, SJE1331-5	4835 130 47107
Q357	Transistor, PNP, SJE1763	4835 130 47084
Z2	Zener Diode, 12V, BZX79.	4835 130 37001
Z3	Zener Diode, 10V, BZX79.	4835 130 37014
Z5	Zener Diode, 5.1V, BZX79	4835 130 37119
Z6	Zener Diode, 5.1V, MMSZ5231B	4835 220 17061
Z7	Zener Diode, 5.1V, MMSZ5231B	4835 220 17061
Z8	Zener Diode, 5.1V, MMSZ5231B	4835 220 17061
Z9	Zener Diode, 5.1V, MMSZ5231B	4835 220 17061
Z10	Zener Diode, 5.1V, BZX7.	4835 130 37941
Z15	Zener Diode, 5.1V, BZX79	4835 130 37119
Z30	Zener Diode, 5.1V, BZX79	4835 130 37119
Z200	Zener Diode, 30V, BZX7	4835 130 37942
Z201	Zener Diode, 30V, BZX7	4835 130 37942
Z300	Zener Diode, 30V, BZX7	4835 130 37942
Z301	Zener Diode, 30V, BZX7	4835 130 37942
L3	5uH., Adjustable Coil.	4835 157 58097
L4	10uH., Suppression Coil.	4835 152 27026
L5	22uH., 10%, Choke Coil	4835 152 27049
L6	22uH., 10%, Choke Coil	4835 152 27049
L11	5.6uH., 5%, Peaking Coil	2422 535 94291
L12	5.6uH., 5%, Peaking Coil	2422 535 94291
L13	5.6uH., 5%, Peaking Coil	2422 535 94291
L16	5.6uH., 5%, Peaking Coil	2422 535 94291
L19	5.6uH., 5%, Peaking Coil	2422 535 94291
L20	5.6uH., 10%, Peaking Coil LAL03.	4835 157 57103
L22	5.6uH., 10%, Peaking Coil LAL03.	4835 157 57103
L24	5.6uH., 10%, Peaking Coil LAL03.	4835 157 57103
L25	6.8uH., 10% Peaking Coil LAL03	4835 157 57988
L26	6.8uH., 10% Peaking Coil LAL03	4835 157 57988
L27	6.8uH., 10% Peaking Coil LAL03	4835 157 57988
L28	6.8uH., 10% Peaking Coil LAL03	4835 157 57988
L29	6.8uH., 10% Peaking Coil LAL03	4835 157 57988
BRXXX	Zero ohm, Carbon Film.	4835 111 27056
BRSXXX	Zero ohm, Carbon Film.	4835 111 27056
F1	4 Amp Fuse	4835 253 37027
F2	4 Amp Fuse	4835 253 37027
F3	1 Amp Fuse	4835 253 37026
HS6	Small Signal Shield.	3135 011 02251
HS100	Heatsink for Digital Convergence	3135 011 02000
HS100	Spring Clip for Q306 and Q307 (2 used)	3135 011 03270
HS150	Heatsink for Digital Convergence	3135 011 02000
HS150	Spring Clip for Q356 and Q357 (2 used)	3135 011 03270
HS200	Heatsink for Digital Convergence	3135 011 02000
HS200	Spring Clip for Q206 and Q207 (2 used)	3135 011 03270
HS250	Heatsink for Digital Convergence	3135 011 02000
HS250	Spring Clip for Q256 and Q257 (2 used)	3135 011 03270
HS300	Heatsink for Digital Convergence	3135 011 02000
HS300	Spring Clip for Q156 and Q157 (2 used)	3135 011 03270
HS350	Heatsink for Digital Convergence	3135 011 02000
HS350	Spring Clip for Q106 and Q107 (2 used)	3135 011 03270
J307	8 Pin Connector.	2422 025 15025
J468	9 Pin Connector.	2422 025 15205
J483	5 Pin Connector.	3135 010 02931
J484	5 Pin Connector.	3135 010 02931
J485	5 Pin Connector.	3135 010 02931
J654A	10 Pin Board Connector	2422 025 15027
P701	10 Pin Connector	4835 265 97463
P801	10 Pin Connector	4835 265 97463
P901	10 Pin Connector	4835 265 97463
SA701	Surge Protector.	4835 116 97013
SA801	Surge Protector.	4835 116 97013
SA901	Surge Protector.	4835 116 97013
SHB200	Shield (for Digital Convergence)	3135 011 01890
SHD200	Heatsink for Digital Convergence	3135 011 03291
TP4	2 Pin Board Connector.	2422 025 02496
Y1	Saw Filter, 390MHz	4835 153 97054

RED CRT APNEL

RED CRT APNEL

C701	0.01uF., 400V, Electrolytic.	0025 972 51039
C702	0.01uF., 400V, Electrolytic.	0025 972 51039
S C705	1000pF., 20%, 2kV, Ceramic Disc.	4822 122 32064
C717	10uF., 350V, Electrolytic.	2020 012 93272
C720	10uF., 20%, 50V, Electrolytic.	3198 025 51090
C721	0.1uF., 63V, Metalized Polyester	4835 121 47602
C750	100pF., 5%, 50V, Ceramic Disc.	3198 019 01010
C751	1200pF.,5%, 100V, Polyester.	4835 121 47558
C752	1000pF., 20%, 1kV, Ceramic Disc.	4822 122 32064
S R701	27 ohm, 5%, 1/2W, Metal Oxide.	4835 116 57112
R703	100 ohm, 5%, 1/3W, Carbon Film	4822 050 21001
S R710	1.5k, 10%, 1/2W, Carbon Composition.	4835 110 47001
S R716	110 ohm, 5%, 1/2W, Carbon Composition.	4835 110 47096
S R718	22k, 20%, 1/2W, Carbon Composition	4835 110 47167
S R719	5.6 ohm, 5%, 1/2W, Metal Film	4835 116 57595
S R720	5.6 ohm, 5%, 1/2W, Metal Film	4835 116 57595
S R730	3.3k, 5%, 5W, Metal Oxide.	4835 116 67302
S R731	3.3k, 5%, 5W, Metal Oxide.	4835 116 67302
R735	100 ohm, 5%, 1/3W, Carbon Film	4822 050 21001
R738	100k, 5%, 1/3W, Carbon Film.	4822 050 21004
R742	750 ohm, 1%, 1/4W, Carbon Film	4835 110 57352
R743	220 ohm, 1%, 0.6W, Metal Film.	4835 116 57765
R745	75 ohm, 2%, 1/2W, Carbon Film.	4835 110 47202
R751	15 ohm, 1%, 0.6W, Metal Film	4835 116 57766
R752	22k, 5%, 1/4W, Carbon Composition.	4835 110 57317
R753	43 ohm, 5%, 1/2W, Carbon Film.	4835 110 47195
R755	47 ohm, 5%, 1/8W, Carbon Film.	4822 050 14709
R756	68 ohm, 5%, 1/3W, Carbon Film.	4835 110 57008
D705	Diode, MUR140.	4835 130 37102
Q701	Transistor, Upper Cascode, 2SC3790E.	4835 130 47886
Q702	Transistor, Lower Cascode, SPS7350	4835 130 47051
Q703	Transistor, Bias, SPS9	4835 130 47091
L701	100uH., 10%, Peaking Coil.	4835 157 67077
L702	15uH., Coil LAL04.	4835 157 67087
L703	47uH., Coil LAL02.	4835 157 67088
L704	47uH., Coil LAL02.	4835 157 67088
L705	22uH., 5%, Peaking Coil.	4835 157 67089
HS701	Heatsink for Q701.	3135 011 01230
J540A	2 Pin Connector.	3135 010 02941
J567	2 Pin Connector.	3135 010 02941
J580	Contact Pin.	3135 010 00470
J654	10 Pin Board Connector	2422 025 15027

GREEN CRT PANEL

GREEN CRT PANEL

C801	0.01uF., 400V, Electrolytic.	0025 972 51039
S C805	1000pF., 20%, 2kV, Ceramic Disc.	4822 122 32064
C807	0.01uF., 400V, Electrolytic.	0025 972 51039
C817	10uF., 350V, Electrolytic.	2020 012 93272
C820	10uF., 20%, 50V, Electrolytic.	3198 025 51090
C821	0.1uF., 63V, Metalized Polyester	4835 121 47602
C850	100pF., 5%, 50V, Ceramic Disc.	3198 019 01010
C851	1200pF.,5%, 100V, Polyester.	4835 121 47558
C852	1000pF., 20%, 1kV, Ceramic Disc.	4822 122 32064
S R801	27 ohm, 5%, 1/2W, Metal Oxide.	4835 116 57112
R803	100 ohm, 5%, 1/3W, Carbon Film	4822 050 21001
S R810	1.5k, 5%, 1/2W, Carbon Composition	4835 110 47194
S R816	110 ohm, 5%, 1/2W, Carbon Composition.	4835 110 47096
S R818	22k, 20%, 1/2W, Carbon Composition	4835 110 47167
S R819	5.6 ohm, 5%, 1/2W, Metal Film	4835 116 57595
S R820	5.6 ohm, 5%, 1/2W, Metal Film	4835 116 57595
R825	220k, 5%, 1/2W, Metal Film	4835 116 57018
R826	100k, 5%, 1/2W, Metal Film	4835 116 57687
S R830	3.3k, 5%, 5W, Metal Oxide.	4835 116 67302
S R831	3.3k, 5%, 5W, Metal Oxide.	4835 116 67302
R835	100 ohm, 5%, 1/3W, Carbon Film	4822 050 21001
R838	100k, 5%, 1/3W, Carbon Film.	4822 050 21004
R842	750 ohm, 1%, 0.6W, Metal Film.	4835 116 57767
R843	220 ohm, 1%, 0.6W, Metal Film.	4835 116 57765
R845	75 ohm, 2%, 1/2W, Carbon Film.	4835 110 47202
R851	15 ohm, 1%, 0.6W, Metal Film	4835 116 57766
R852	22k, 5%, 1/4W, Carbon Composition.	4835 110 57317
R853	43 ohm, 5%, 1/2W, Carbon Film.	4835 110 47195
R855	47 ohm, 5%, 1/3W, Carbon Film.	4835 110 57019
R856	68 ohm, 5%, 1/3W, Carbon Film.	4835 110 57008
R857	10k, 5%, 1/2W, Metal Film.	4835 116 57686
D805	Diode, MUR140.	4835 130 37102
Q801	Transistor, Upper Cascode, 2SC3790E.	4835 130 47886
Q802	Transistor, Lower Cascode, SPS7350	4835 130 47051
Q803	Transistor, Bias, SPS9	4835 130 47091
L801	100uH., 10%, Peaking Coil.	4835 157 67077
L802	15uH., Coil LAL04.	4835 157 67087
L803	47uH., Coil LAL02.	4835 157 67088
L804	47uH., Coil LAL02.	4835 157 67088
L805	22uH., 10%, Peaking Coil	4835 157 67069
HS801	Heatsink for Q801.	3135 011 01230
J401	4 Pin Board Connector.	2422 025 15021
J540	2 Pin Connector.	3135 010 02941
J568	2 Pin Connector.	3135 010 02941
J569	2 Pin Connector.	3135 010 02941
J581	Contact Pin.	3135 010 00470
J608	10 Pin Board Connector	2422 025 15196

S = Safety Part Be sure to use exact replacement part.

J654A	10 Pin Board Connector	2422	025 15027
J658A	10 Pin Board Connector	2422	025 14677

BLUE CRT PANEL

	BLUE CRT PANEL		
C901	0.01uF., 400V, Electrolytic.	0025	972 51039
C902	0.01uF., 400V, Electrolytic.	0025	972 51039
S C905	1000pF., 20%, 2kV, Ceramic Disc.	4822	122 32064
C917	10uF., 350V, Electrolytic.	2020	012 93272
C920	10uF., 20%, 50V, Electrolytic.	4835	124 47202
C921	0.1uF., 63V, Metalized Polyester	4835	121 47602
C950	100pF., 5%, 50V, Ceramic Disc.	3198	019 01010
C951	1200pF.,5%, 100V, Polyester.	4835	121 47558
C952	1000pF., 20%, 1kV, Ceramic Disc.	4822	122 32064
S R901	27 ohm, 5%, 1/2W, Metal Oxide.	4835	116 57112
R903	100 ohm, 5%, 1/3W, Carbon Film	4822	050 21001
S R910	1.5k, 10%, 1/2W, Carbon Composition.	4835	110 47001
S R916	110 ohm, 5%, 1/2W, Carbon Composition.	4835	110 47096
S R918	22k, 20%, 1/2W, Carbon Composition	4835	110 47167
S R919	5.6 ohm, 5%, 1/2W, Metal Film.	4835	116 57595
S R920	5.6 ohm, 5%, 1/2W, Metal Film.	4835	116 57595
S R930	3.3k, 5%, 5W, Metal Oxide.	4835	116 67302
S R931	3.3k, 5%, 5W, Metal Oxide.	4835	116 67302
R935	100ohm, 5%, 1/3W, Carbon Film.	4822	050 21001
R938	100k, 5%, 1/3W, Carbon Film.	4822	050 21004
R942	750ohm, 1%, 1/4W, Carbon Film.	4835	110 57352
R943	220 ohm, 1%, 0.6W, Metal Film.	4835	116 57765
R945	75 ohm, 2%, 1/2W, Carbon Film.	4835	110 47202
R951	15 ohm, 1%, 0.6W, Metal Film	4835	116 57766
R952	22k, 5%, 1/4W, Carbon Composition.	4835	110 57317
R953	43 ohm, 5%, 1/2W, Carbon Film.	4835	110 47195
R955	47 ohm, 5%, 1/8W, Carbon Film.	4822	050 14709
R956	68 ohm, 5%, 1/3W, Carbon Film.	4835	110 57008
D905	Diode, MUR140.	4835	130 37102
Q901	Transistor, Upper Cascode, 2SC3790E.	4835	130 47886
Q902	Transistor, Lower Cascode, SPS7350	4835	130 47051
Q903	Transistor, Bias, SPS9	4835	130 47091
L901	100uH., 10%, Peaking Coil.	4835	157 67077
L902	15uH., Coil LAL04.	4835	157 67087
L903	47uH., Coil LAL02.	4835	157 67088
L904	47uH., Coil LAL02.	4835	157 67088
L905	22uH., 10%, Peaking Coil	4835	157 67069
HS901	Heatsink for Q901.	3135	011 01230
J569A	2 Pin Connector.	3135	010 02941
J570	2 Pin Connector.	3135	010 02941
J582	Contact Pin.	3135	010 00470
J658	10 Pin Board Connector	2422	025 14677

MODEL 008P5431C101

	MODEL 008P5431C101		
S 20	AC Cord, Filtered.	4835	321 17128
27	Back Cover (Lower)	4835	432 97707
26	Back Cover (Upper)	4835	432 97693
	Baffle Mount Receptacle (x6)	4835	265 97154
	Battery f/Remote AA ZC 1.5V.	4835	138 17047
	Caster (x4).	4835	528 77071
17	Chassis Frame.	4835	432 17943
3	Extr., Screen Bottom	3135	014 02950
2	Extr., Screen Edge, Side (x2).	3135	014 03070
14	Extr., Screen Edge, Top.	3135	014 03060
4	Foot Base Rail (x2).	3135	014 03131
16	Frame f/Digital Convergence.	4835	432 17846
11	Frame, Screen 54" (x2)	3135	014 06350
9	Hole Insert (x17).	3135	014 02741
18	Jack Panel Frame	3135	014 06650
13	Lens, Fresnel.	3135	013 00950
10	Lens, Lenticular	3135	013 00920
22	Light Barrier.	4835	432 17945
15	Mirror Board Mtng Brkt. (x2)	3135	011 02401
25	Mirror Mounting.	3135	013 01410
24	Mirror Trapz 2nd Surface	3135	013 01140
	Owners Manual.	3135	015 07370
	Quick Use Guide.	3135	015 07360
	Rear Barrier	4835	432 97694
19	Rear Jack Panel Overlay.	4835	459 17556
	Remote Transmit. UR714SB	4835	219 17699
1	Retainer Treelock (x15).	3135	014 02620
8	Speaker Full 4x6" 8 Ohm (x2)	4835	240 47011
7	Speaker Grille	4835	459 47113

SMALL SIGNAL PANEL (1 TUNER)

	SMALL SIGNAL PANEL (1 TUNER)		
C1	100uF., 16V, Electrolytic.	3198	025 21010
C2	15pF., 5%, 50V, Ceramic.	3198	016 01590
C4	470uF., 50V, Electrolytic.	3198	025 54770
C5	100uF., 16V, Electrolytic.	3198	025 21010
C7	0.01uF., 10%, 50V, Ceramic	3198	017 01030
C8	220uF., 16V, Electrolytic.	3198	025 22210
C9	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C10	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C13	1uF., 20%, 50V, Electrolytic	3198	025 51080
C14	1uF., 20%, 50V, Electrolytic	3198	025 51080
C19	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C25	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C30	10uF., 20%, 16V, Electrolytic.	2020	012 92805
C37	100uF., 16V, Electrolytic.	3198	025 21010
C39	220uF., 16V, Electrolytic.	3198	025 22210
C45	0.01uF., 10%, 50V, Ceramic	4835	122 87042
C46	1000uF., 16V, Electrolytic	4835	124 47571
C50	1000pF., 10%, 50V, Ceramic	3198	017 01020
C51	1000pF., 10%, 50V, Ceramic	3198	017 01020
C100	5600pF., 10%, 50V, Ceramic	4835	122 87043
C101	0.15uF., 5%, 50V, Polyester.	2020	308 90118
C102	0.15uF., 5%, 50V, Polyester.	2020	308 90118
C103	0.15uF., 5%, 50V, Polyester.	2020	308 90118
C104	2.2uF., 25V, Electrolytic.	4835	124 97179
C105	8200pF., 10%, 50V, Ceramic	4835	122 87527
C106	4.7uF., 20%, 16V, Electrolytic	2020	004 90258
C107	2.2uF., 25V, Electrolytic.	4835	124 97179
C108	2.2uF., 25V, Electrolytic.	4835	124 97179
C109	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C110	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C111	1uF., 35V, Electrolytic.	4835	124 97175
C112	1uF., 35V, Electrolytic.	4835	124 97175
C113	0.047uF., 10%, 50V, Ceramic.	3198	017 04730
C114	0.1uF., 25V, Ceramic	3198	017 21040
C115	4.7uF., 20%, 16V, Electrolytic	2020	004 90258
C116	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C117	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C118	0.47uF., 100V, Metalized Polyester	4835	121 47364
C119	0.22uF., 100V, Metalized Polyester	4835	121 47038
C120	4.7uF., 20%, 16V, Electrolytic	2020	004 90258
C121	0.22uF., 100V, Metalized Polyester	4835	121 47038
C122	4.7uF., 20%, 16V, Electrolytic	2020	004 90258
C123	4.7uF., 20%, 16V,Electrolytic.	2020	004 90258
C124	2.2uF., 25V, Electrolytic.	4835	124 97179
C125	2.2uF., 25V, Electrolytic.	4835	124 97179
C126	0.015uF., 10%, 50V, Ceramic.	4835	122 87063
C127	0.015uF., 10%, 50V, Ceramic.	4835	122 87063
C128	2.2uF., 25V,Electrolytic	4835	124 97179
C129	8200pF., 10%, 50V,Ceramic.	4835	122 87527
C130	0.15uF., 5%, 50V, Polyester.	2020	308 90118
C131	5600pF., 10%, 50V, Ceramic	4835	122 87043
C132	0.15uF., 5%, 50V, Polyester.	2020	308 90118
C133	0.15uF., 5%, 50V, Polyester.	2020	308 90118
C135	1000uF., 35V, Electrolytic	4835	124 47498
C136	1000uF., 35V, Electrolytic	4835	124 47498
C137	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C138	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C140	0.1uF., 25V,Ceramic.	3198	017 21040
C142	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C154	0.1uF., 25V, Ceramic	3198	017 21040
C155	100uF., 16V, Electrolytic.	3198	025 21010
C156	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C157	47uF., 20%, 25V,Electrolytic	3198	025 34790
C158	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C160	47uF., 20%, 25V, Electrolytic.	3198	025 34790
C161	100pF., 5%, 50V, Ceramic	3198	016 01010
C162	100uF., 50V, Electrolytic.	3198	025 51010
C164	100pF., 5%, 50V, Ceramic	3198	016 01010
C165	47uF., 20%, 25V, Electrolytic.	3198	025 34790
C166	0.1uF., 10%, 50V, Ceramic.	4835	122 87061
C167	10uF., 50V, Electrolytic	4835	124 47525
C168	0.1uF., 10%, 50V, Ceramic.	4835	122 87061
C169	1000uF., 25V, Electrolytic	4835	124 47583
C170	1uF., 20%, 50V, Electrolytic	3198	025 51080
C171	0.1uF., 10%, 50V, Ceramic.	4835	122 87061
C172	0.1uF., 10%, 50V,Ceramic	4835	122 87061
C173	100uF., 16V, Electrolytic.	3198	025 21010
C174	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C175	1000uF., 25V, Electrolytic	4835	124 47583
C176	0.1uF., 10%, 50V, Ceramic.	4835	122 87061
C177	0.01uF., 10%, 50V, Ceramic	3198	017 01030
C178	47uF., 20%, 25V, Electrolytic.	3198	025 34790
C179	0.1uF., 10%, 50V, Ceramic.	4835	122 87061
C180	0.01uF., 10%, 50V, Ceramic	3198	017 01030
C181	0.1uF., 25V, Ceramic	3198	017 21040
C186	1uF., 20%, 50V, Electrolytic	3198	025 51080
C190	47uF., 20%, 25V, Electrolytic.	3198	025 34790
C191	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C195	10uF., 20%, 50V, Electrolytic.	3198	025 51090
C198	47uF., 20%, 50V, Electrolytic.	3198	025 54790
C199	47uF., 20%, 50V, Electrolytic.	3198	025 54790
C200	0.1uF., 10%, 50V, Ceramic.	4835	122 87061
C201	4.7uF., 20%, 16V, Electrolytic	2020	004 90258
C202	1000pF., 10%, 50V, Ceramic	3198	017 01020
C203	0.01uF., 10%, 50V, Ceramic	3198	017 01030
C204	100uF., 25V, Electrolytic.	3198	025 31010
C205	0.1uF., 10%, 50V, Ceramic.	4835	122 87061
C206	0.01uF., 10%, 50V, Ceramic	4835	122 87042
C207	2.2uF., 25V, Electrolytic.	4835	124 97179
C208	330pF., 10%, 50V, Ceramic.	4835	122 47047
C209	0.01uF., 10%, 50V, Ceramic	4835	122 87042
C210	16pF., 5%, 50V, Ceramic.	4835	122 87449

S = Safety Part Be sure to use exact replacement part.

C211	0.47uF., 35V, Electrolytic	4835 124 97182
C212	0.068uF., 10%, 50V, Ceramic.	4835 122 87448
C213	0.33uF., 35V, Electrolytic	4835 124 97037
C216	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C217	470pF., 10%, 50V, Ceramic.	2020 552 93057
C218	1uF., 35V, Electrolytic.	4835 124 97175
C220	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C221	10uF., 20%, 50V, Electrolytic.	3198 025 51090
C222	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C223	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C225	0.047uF., 10%, 50V, Ceramic.	4835 122 87071
C227	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C229	0.1uF., 25V, Ceramic	3198 017 21040
C230	220pF., 5%, 50V, Ceramic	3198 016 02210
C300	0.1uF., 25V, Ceramic	3198 017 21040
C301	33pF., 5%, 50V, Ceramic.	3198 016 03390
C302	33pF., 5%, 50V, Ceramic.	3198 016 03390
C303	6.8uF., 10V, Electrolytic.	4835 124 97183
C304	1000pF., 10%, 50V, Ceramic	3198 017 01020
C305	1000pF., 10%, 50V, Ceramic	3198 017 01020
C306	1000pF., 10%, 50V, Ceramic	3198 017 01020
C307	1000pF., 10%, 50V, Ceramic	3198 017 01020
C308	1000pF., 10%, 50V, Ceramic	3198 017 01020
C309	1000pF., 10%, 50V, Ceramic	3198 017 01020
C310	1000pF., 10%, 50V, Ceramic	3198 017 01020
C311	6.8uF., 10V, Electrolytic.	4835 124 97183
C312	100pF., 5%, 50V, Ceramic	3198 016 01010
C313	1000pF., 10%, 50V, Ceramic	3198 017 01020
C314	1000pF., 10%, 50V, Ceramic	3198 017 01020
C315	1000pF., 10%, 50V, Ceramic	3198 017 01020
C316	1000pF., 10%, 50V, Ceramic	3198 017 01020
C317	1000pF., 10%, 50V, Ceramic	3198 017 01020
C318	1000pF., 10%, 50V, Ceramic	3198 017 01020
C319	1000pF., 10%, 50V, Ceramic	3198 017 01020
C321	1000pF., 10%, 50V, Ceramic	4835 122 87041
C322	1uF., 35V, Electrolytic.	4835 124 97175
C323	1uF., 35V, Electrolytic.	4835 124 97175
C341	Trimmer Capacitor, 3pF.-40pF., 250V.	2222 808 11409
C342	0.47uF., 35V, Electrolytic	4835 124 97182
C355	100pF., 5%, 50V, Ceramic	3198 016 01010
C356	100pF., 5%, 50V, Ceramic	3198 016 01010
C359	1000pF., 10%, 50V, Ceramic	3198 017 01020
C360	1000pF., 10%, 50V, Ceramic	3198 017 01020
C362	100pF., 5%, 50V, Ceramic	3198 016 01010
C363	100pF., 5%, 50V, Ceramic	3198 016 01010
C375	1000pF., 10%, 50V, Ceramic	3198 017 01020
C376	1000pF., 10%, 50V, Ceramic	3198 017 01020
C377	1000pF., 10%, 50V, Ceramic	3198 017 01020
C378	1000pF., 10%, 50V, Ceramic	3198 017 01020
C379	1000pF., 10%, 50V, Ceramic	3198 017 01020
C382	1000pF., 10%, 50V, Ceramic	3198 017 01020
C383	27pF., 5%, 50V, Ceramic.	3198 016 02790
C386	1000pF., 10%, 50V, Ceramic	3198 017 01020
C387	2.2uF., 25V, Electrolytic.	4835 124 97179
C390	100pF., 5%, 50V, Ceramic	3198 016 01010
C391	1000pF., 10%, 50V, Ceramic	3198 017 01020
C395	0.1uF., 25V, Ceramic	3198 017 21040
C396	0.1uF., 25V, Ceramic	3198 017 21040
C400	4.7uF., 20%, 16V, Electrolytic	2020 004 90258
C401	22uF., 20%, 25V, Electrolytic.	4835 124 47707
C402	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C405	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C406	10uF., 20%, 50V, Electrolytic.	3198 025 51090
C407	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C408	10uF., 20%, 50V, Electrolytic.	3198 025 51090
C600	33pF., 5%, 50V, Ceramic.	3198 016 03390
C601	0.1uF., 25V, Ceramic	3198 017 21040
C602	82pF., 5%, 50V, Ceramic.	3198 016 08290
C603	0.1uF., 25V, Ceramic	3198 017 21040
C604	0.033uF., 10%, 50V, Ceramic.	3198 017 03330
C605	0.33uF., 35V, Electrolytic	4835 124 97037
C606	0.1uF., 25V, Ceramic	3198 017 21040
C607	0.1uF., 25V, Ceramic	3198 017 21040
C608	82pF., 5%, 50V, Ceramic.	3198 016 08290
C609	82pF., 5%, 50V, Ceramic.	3198 016 08290
C611	1uF., 20%, 50V, Electrolytic	3198 025 51080
C612	0.1uF., 25V, Ceramic	3198 017 21040
C615	2.2uF., 25V, Electrolytic.	4835 124 97179
C616	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C617	1000pF., 10%, 50V, Ceramic	3198 017 01020
C618	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C619	0.47uF., 100V, Metalized Polyester	4835 121 47222
C620	0.018uF., 10%, 50V, Ceramic.	4835 122 87533
C621	100uF., 25V, Electrolytic.	3198 025 31010
C622	100uF., 25V, Electrolytic.	3198 025 31010
C623	1uF., 35V, Electrolytic.	4835 124 97175
C624	680pF., 5%, 50V, Ceramic	3198 016 06810
C625	82pF., 5%, 50V, Ceramic.	4835 122 87593
C628	0.22uF., 50V, Ceramic.	4835 122 87087
C629	68pF., 5%, 50V, Ceramic.	3198 016 06890
C637	4700pF., 10%, 50V, Ceramic	3198 017 04720
C638	0.1uF., 25V, Ceramic	3198 017 21040
C639	0.33uF., 35V, Electrolytic	4835 124 97037
C640	0.012uF., 10%, 50V, Ceramic.	4835 122 87501
C641	0.1uF., 25V, Ceramic	3198 017 21040
C642	2.2uF., 25V, Electrolytic.	4835 124 97179
C643	200pF., 5%, 50V, Ceramic	4835 122 87092
C645	620pF., 5%, 50V, Ceramic	4835 122 87089
C647	1000pF., 10%, 50V, Ceramic	4835 122 87041
C648	120pF., 5%, 50V, Ceramic	4835 122 87046
C649	51pF., 5%, 50V, Ceramic.	4835 122 87054
C650	180pF., 5%, 50V, Ceramic	4835 122 87028
C651	10uF., 20%, 50V, Electrolytic.	3198 025 51090
C654	0.1uF., 25V, Ceramic	3198 017 21040
C655	220uF., 16V, Electrolytic.	3198 025 22210
C656	100uF., 16V, Electrolytic.	3198 025 21010
C658	360pF., 5%, 50V, Ceramic	4835 122 87484
C659	180pF., 5%, 50V, Ceramic	4835 122 87028
C660	120pF., 5%, 50V, Ceramic	3198 016 01210
C661	15pF., 5%, 50V, Ceramic.	4835 122 87047
C662	0.1uF., 25V, Ceramic	3198 017 21040
C664	0.1uF., 25V, Ceramic	3198 017 21040
C665	0.1uF., 25V, Ceramic	3198 017 21040
C667	2.2uF., 25V, Electrolytic.	4835 124 97179
C675	0.1uF., 25V, Ceramic	3198 017 21040
C676	82pF., 5%, 50V, Ceramic.	4835 122 87038
C677	0.033uF., 10%, 50V, Ceramic.	3198 017 03330
C679	43pF., 5%, 50V, Ceramic.	2020 552 94276
C680	10uF., 20%, 50V, Electrolytic.	3198 025 51090
C681	56P 5%, 50V, Ceramic	4835 122 87096
C690	220uF., 25V, Electrolytic.	3198 025 32210
C691	0.1uF., 25V, Ceramic	3198 017 21040
C699	1uF., 35V, Electrolytic.	4835 124 97175
C719	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C720	47uF., 20%, 25V, Electrolytic.	3198 025 34790
C721	0.1uF., 25V, Ceramic	3198 017 21040
C722	47uF., 20%, 25V, Electrolytic.	3198 025 34790
C723	0.33uF., 35V, Electrolytic	4835 124 97037
C724	0.1uF., 25V, Ceramic	3198 017 21040
C729	10uF., 20%, 50V, Electrolytic.	3198 025 51090
C731	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C732	47uF., 20%, 25V, Electrolytic.	3198 025 34790
C734	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C735	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C736	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C738	10pF., 5%, 50V, Ceramic.	3198 016 01090
C749	10pF., 5%, 50V, Ceramic.	3198 016 01090
C750	100uF., 25V, Electrolytic.	3198 025 31010
C760	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C766	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C767	10pF., 5%, 50V, Ceramic.	4835 122 87045
C1000	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C1001	0.22uF., 50V, Ceramic.	4835 122 87087
C1002	0.1uF., 25V, Ceramic	3198 017 21040
C1003	0.22uF., 50V, Ceramic.	4835 122 87087
C1004	680pF., 5%, 50V, Ceramic	3198 016 06810
C1005	100pF., 5%, 50V, Ceramic	3198 016 01010
C1006	100pF., 5%, 50V, Ceramic	3198 016 01010
C1007	47uF., 20%, 25V, Electrolytic.	3198 025 34790
C1009	100pF., 5%, 50V, Ceramic	3198 016 01010
C1010	100pF., 5%, 50V, Ceramic	3198 016 01010
C1011	220pF., 5%, 50V, Ceramic	3198 016 02210
C1012	1000pF., 10%, 50V, Ceramic	3198 017 01020
C1013	1uF., 35V,Electrolytic	4835 124 97175
C1014	100pF., 5%, 50V, Ceramic	3198 016 01010
C1016	220uF., 25V, Electrolytic.	3198 025 32210
C1017	1000pF., 10%, 50V, Ceramic	3198 017 01020
C1020	100pF., 5%, 50V, Ceramic	3198 016 01010
C1021	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C1022	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C1023	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C1025	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C1026	560pF., 5%, 50V,Ceramic.	4835 122 87055
C1027	0.1uF., 100V, Metalized Polyester.	2222 365 22104
C1028	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C1029	1uF., 20%, 50V, Electrolytic	3198 025 51080
C1031	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C1034	12pF., 5%, 50V, Ceramic.	3198 016 01290
C1035	12pF., 5%, 50V, Ceramic.	3198 016 01290
C1037	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C1038	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C1039	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C1040	0.1uF., 25V, Ceramic	3198 017 21040
C1041	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C1042	0.01uF., 10%, 50V, Ceramic	3198 017 01030
C1043	1000pF., 10%, 50V, Ceramic	3198 017 01020
C1044	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C1046	10uF., 10V, Electrolytic	4835 124 97178
C1050	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C1051	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C1052	1uF., 35V, Electrolytic.	4835 124 97175
BRSXXX	0 ohm, "Chip" Jumper	4835 111 27056
BRXXX	0 ohm, Jumper.	3198 021 90010
BRXXX	0 ohm, "Chip" Jumper	4835 111 27056

S = Safety Part Be sure to use exact replacement part.

S R3	22 ohm, 5%, 1/2W, Metal Film	4835 116 57708
R4	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R5	22k, 5%, 1/2W, Metal Film.	4835 116 57706
R6	1k, 5%, 1/4W, Carbon Film.	4835 111 37022
R11	22k, 5%, 1/10W, Carbon Film.	4835 111 37441
R12	10k, 5%, 1/2W, Metal Film.	4835 116 57686
R13	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R14	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R17	180k, 5%, 1/10W, Carbon Film	4835 111 37484
R18	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R19	2.2 Meg ohm, 5%, 1/10W, Carbon Film. .	4835 111 27047
R20	180k, 5%, 1/10W, Carbon Film	4835 111 37484
R21	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R22	2.2 Meg ohm, 5%, 1/10W, Carbon Film. .	4835 111 27047
R29	75 ohm, 5%, 1/10W, Carbon Film	4835 111 37276
R30	75 ohm, 5%, 1/10W, Carbon Film	4835 111 37276
R31	2.2k, 5%, 1/4W, Carbon Film.	3198 011 02220
R32	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R33	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R34	2.2k, 5%, 1/4W, Carbon Film.	3198 011 02220
S R35	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R37	180k, 5%, 1/10W, Carbon Film	4835 111 37484
R38	180k, 5%, 1/10W, Carbon Film	4835 111 37484
R44	560 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 27054
R45	1.6k, 5%, 1/10W, Carbon Film	3198 021 51620
R46	510 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 55110
R47	1.8k, 5%, 1/10W, Carbon Film	4835 111 37231
R48	820 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37466
R49	1.6k, 5%, 1/10W, Carbon Film	3198 021 51620
R51	47k, 5%, 1/10W, Metal Film	4835 111 37445
R52	47k, 5%, 1/10W, Metal Film	4835 111 37445
R55	33k, 5%, 1/10W, Carbon Film.	4835 111 37248
R56	33k, 5%, 1/10W, Carbon Film.	4835 111 37248
R59	1k, 5%, 1/10W, Carbon Film	4822 051 10102
S R63	10 ohm, 5%, 1/4W, Carbon Film.	3198 011 01090
R64	150 ohm, 5%, 1/4W, Carbon Film	3198 011 01510
R65	150 ohm, 5%, 1/4W, Carbon Film	3198 011 01510
R66	68 ohm, 5%, 1/4W, Carbon Film.	3198 011 06890
R67	150 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 51510
R71	100k, 5%, 1/2W, Metal Film	4835 116 57687
S R74	51 ohm, 5%, 1/4W, Carbon Film.	4835 111 37138
S R76	51 ohm, 5%, 1/4W, Carbon Film.	4835 111 37138
R83	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R84	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R89	100k, 5%, 1/10W, Carbon Film	4835 111 37434
R90	220k, 5%, 1/10W, Carbon Film	4835 111 37235
R91	10k, 5%, 1/2W, Metal Film.	4835 116 57686
R100	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R101	20k, 5%, 1/10W, Carbon Film.	3198 021 52030
R102	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R103	8.2k, 5%, 1/10W, Carbon Film	4835 111 37448
R104	160 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 51610
R105	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R106	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
S R107	33 ohm, 5%, 1/2W, Metal Film	4835 116 57366
R108	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R109	20k, 5%, 1/10W, Carbon Film.	3198 021 52030
R110	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R111	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R112	22k, 5%, 1/10W, Carbon Film.	4835 111 37441
R113	22k, 5%, 1/10W, Carbon Film.	4835 111 37441
R115	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R116	22k, 5%, 1/10W, Carbon Film.	4835 111 37441
R117	22k, 5%, 1/2W, Metal Film.	4835 116 57706
R118	47k, 5%, 1/4W, Carbon Film	3198 011 04730
R119	22k, 5%, 1/2W, Metal Film.	4835 116 57706
R120	22k, 5%, 1/10W, Carbon Film.	4835 111 37441
R121	47k, 5%, 1/4W, Carbon Film	3198 011 04730
R122	470 ohm, 5%, 1/4W, Carbon Film	3198 011 14710
R123	2.7k, 5%, 1/4W, Carbon Film.	3198 011 02720
R124	47k, 5%, 1/10W, Metal Film	4835 111 37445
R125	100k, 5%, 1/2W, Metal Film	4835 116 57687
R126	100k, 5%, 1/2W, Metal Film	4835 116 57687
R127	100k, 5%, 1/10W, Carbon Film	4835 111 37434
R128	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R133	47k, 5%, 1/4W, Carbon Film	3198 011 04730
R134	100k, 5%, 1/10W, Carbon Film	4835 111 37434
R139	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R172	100k, 5%, 1/10W, Carbon Film	4835 111 37434
R175	100k, 5%, 1/2W, Metal Film	4835 116 57687
R177	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R178	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R179	47 ohm, 5%, 1/2W, Metal Film	4835 116 57727
R186	12k, 5%, 1/4W, Carbon Film	3198 011 01230
R187	1.5k, 5%, 1/10W, Carbon Film	4835 111 37437
R189	1.5k, 5%, 1/10W, Carbon Film	4835 111 37437
R190	12k, 5%, 1/4W, Carbon Film	3198 011 01230
R191	4.7 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 54780
R192	4.7 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 54780
R193	220k, 5%, 1/10W, Carbon Film	4835 111 37235
R194	1k, 5%, 1/2W, Metal Film	4835 116 57685
R195	100k, 5%, 1/2W, Metal Film	4835 116 57687
R196	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R197	270k, 5%, 1/4W, Carbon Film.	3198 011 02740
R198	110k, 5%, 1/2W, Metal Film	2322 187 53114
R199	100k, 5%, 1/2W, Metal Film	4835 116 57687
R200	24k, 5%, 1/2W, Carbon Film	4835 110 47199
R201	22k, 5%, 1/8W, Carbon Film	4835 111 37558
R202	Control Adjust, 4.7k	2020 363 90236
R203	9.1k, 5%, 1/10W, Carbon Film	3198 021 59120
R204	6.8k, 5%, 1/4W, Carbon Film.	2322 711 61682
R205	2.2k, 5%, 1/4W, Carbon Film.	2322 711 61222
R206	2.7k, 5%, 1/4W, Carbon Film.	3198 011 02720
R207	6.2k, 5%, 1/4W, Carbon Film.	2322 711 61622
R208	9.1k, 5%, 1/2W, Metal Film	2322 187 53912
R209	10k, 5%, 1/8W, Metal Film.	4835 111 37556
R212	390 ohm, 5%, 1/4W, Carbon Film	2322 711 61391
R214	47 ohm, 5%, 1/10W, Carbon Film	4835 111 37262
R215	1k, 5%, 1/4W, Carbon Film.	4835 111 37022
R216	270 ohm, 5%, 1/4W, Carbon Film	2322 711 61271
R217	100k, 5%, 1/2W, Metal Film	4835 116 57687
R218	62k, 5%, 1/4W, Carbon Film	2322 711 61623
R219	47k, 5%, 1/4W, Carbon Film	4835 111 37561
R220	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R221	1k, 5%, 1/4W, Carbon Film.	4835 111 37022
R222	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R228	680k, 5%, 1/10W, Carbon Film	3198 021 56840
R229	3.6k, 5%, 1/4W, Carbon Film.	2322 711 61362
R230	47k, 5%, 1/4W, Carbon Film	4835 111 37561
R231	4.7k, 5%, 1/8W, Metal Film	4835 111 37559
R232	10k, 5%, 1/8W, Metal Film.	4835 111 37556
R233	47k, 5%, 1/4W, Carbon Film	4835 111 37561
R234	680k, 5%, 1/10W, Carbon Film	3198 021 56840
R235	1.8k, 5%, 1/4W, Carbon Film.	4835 111 37065
R236	330 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37443
R238	2.7k, 5%, 1/4W, Carbon Film.	4835 111 37083
R240	0 ohm, Carbon Film	4835 111 27056
R241	0 ohm, Carbon Film	4835 111 27056
R242	1k, 5%, 1/4W, Carbon Film.	4835 111 37022
R243	4.3k, 5%, 0.24W, Carbon Film	2322 711 61432
R244	Control Adjust, 1k,.	4835 100 17014
R245	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R246	150k, 5%, 1/10W, Carbon Film	4835 111 27045
R247	1.1k, 5%, 1/4W, Carbon Film.	2322 711 61112
R248	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R255	100 ohm, 5%, 1/4W, Carbon Film	4835 111 37021
R300	1/4W, 5%, 100 ohm, Carbon Composition.	4835 110 57066
R301	1k, 5%, 1/2W, Metal Film	4835 116 57685
R302	4.7k, 5%, 1/8W, Metal Film	4835 111 37559
R303	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R304	47k, 5%, 1/4W, Carbon Film	3198 011 04730
R305	100k, 5%, 1/2W, Metal Film	4835 116 57687
R306	100k, 5%, 1/10W, Carbon Film	4835 111 37434
R307	100 ohm, 5%, 1/4W, Carbon Composition.	4835 110 57066
R308	47k, 5%, 1/10W, Metal Film	4835 111 37445
R309	15k, 5%, 1/2W, Metal Film.	4835 116 57698
R310	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R311	100 ohm, 5%, 1/4W, Carbon Composition.	4835 110 57066
R312	10k, 5%, 1/2W, Metal Film.	4835 116 57686
R313	3.3k, 5%, 1/10W, Carbon Film	4835 111 37247
R314	47k, 5%, 1/10W, Metal Film	4835 111 37445
R315	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R316	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R317	4.7k, 5%, 1/2W, Metal Film	4835 116 57724
R318	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R319	16k, 5%, 1/10W, Carbon Film.	3198 021 51630
R320	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R323	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R324	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R325	1k, 5%, 1/2W, Metal Film	4835 116 57685
R326	1k, 5%, 1/4W, Carbon Film.	4835 111 37022
R327	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R328	4.7k,, 5%, 1/8W, Metal Film.	4835 111 37559
R329	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R330	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R331	4.7k, 5%, 1/8W, Metal Film	4835 111 37559
R332	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R333	3.3k, 5%, 1/10W, Carbon Film	4835 111 37247
R334	4.7k,, 5%, 1/8W, Metal Film.	4835 111 37559
R335	4.7k, 5%, 1/8W, Metal Film	4835 111 37559
R336	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R337	47k, 5%, 1/4W, Carbon Film	3198 011 04730
R338	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R339	4.7k, 5%, 1/2W, Metal Film	4835 116 57724
R340	47 ohm, 5%, 1/10W, Carbon Film	4835 111 37262
R341	1k, 5%, 1/2W, Metal Film	4835 116 57685
R342	3.3k, 5%, 1/10W, Carbon Film	4835 111 37247
R343	3.3k, 5%, 1/10W, Carbon Film	4835 111 37247
R344	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R346	1k, 5%, 1/2W, Metal Film	4835 116 57685
R347	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R348	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R350	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R351	1k, 5%, 1/10W, Carbon Film	4822 051 10102

S = Safety Part Be sure to use exact replacement part.

R352	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R353	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R354	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R355	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R356	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R357	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R358	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R359	47k, 5%, 1/4W, Carbon Film	3198 011 04730
R361	1k, 5%, 1/2W, Metal Film	4835 116 57685
R363	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R364	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R365	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R366	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R367	47 ohm, 5%, 1/2W, Metal Film	4835 116 57727
R369	1k, 20%, 1/4W, Carbon Composition. . .	4835 110 57318
R370	1k, 20%, 1/4W, Carbon Composition. . .	4835 110 57318
R371	1k, 20%, 1/4W, Carbon Composition. . .	4835 110 57318
R372	1k, 20%, 1/4W, Carbon Composition. . .	4835 110 57318
R373	1k, 20%, 1/4W, Carbon Composition. . .	4835 110 57318
R374	1k, 20%, 1/4W, Carbon Composition. . .	4835 110 57318
R375	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R376	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R377	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R379	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R380	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R381	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R382	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R383	22k, 5%, 1/10W, Carbon Film.	4835 111 37441
R390	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R397	100k, 5%, 1/10W, Carbon Film	4835 111 37434
R398	100k, 5%, 1/10W, Carbon Film	4835 111 37434
R399	100k, 5%, 1/10W, Carbon Film	4835 111 37434
S R402	10 ohm, 5%, 3W, Metal Oxide.	2120 105 92585
R600	1k, 5%, 1/2W, Metal Film	4835 116 57685
R601	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R602	22k, 5%, 1/10W, Carbon Film.	4835 111 37441
R603	3.3k, 5%, 1/4W, Carbon Film.	4835 111 37035
R604	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R605	180 ohm 5%, 1/10W, Carbon Film	4835 111 37229
R606	180 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37229
R607	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R608	0 ohm, 1/8W, Carbon Film	4835 110 67173
R609	36k, 5%, 1/10W, Carbon Film.	3198 021 53630
R610	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R611	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R612	560 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 27054
R613	47 ohm, 5%, 1/4W, Carbon Film.	2322 711 61479
R614	330 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37443
R615	390 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37253
R616	560 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 27054
R617	10 ohm, 5%, 1/10W, Carbon Film	4835 111 37363
R618	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R619	47 ohm, 5%, 1/4W, Carbon Film.	2322 711 61479
R620	360 ohm, 5%, 1/4W, Carbon Film	2322 711 61361
R621	620 ohm, 5%, 1/4W, Carbon Film	2322 711 61621
R622	360 ohm, 5%, 1/4W, Carbon Film	2322 711 61361
R623	2k, 5%, 1/4W, Carbon Film.	2322 711 61202
R624	430 ohm, 5%, 1/4W, Carbon Film	3198 011 04310
R625	2k, 5%, 1/10W, Carbon Film	4835 111 27091
R626	100 ohm, 5%, 1/4W, Carbon Film	4835 111 37021
R627	910 ohm, 5%, 1/4W, Carbon Film	2322 711 61911
R628	51 ohm, 5%, 1/4W, Carbon Film.	3198 011 05190
R629	51k, 5%, 1/10W, Carbon Film.	4835 111 27057
R630	430 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 54310
R631	110k, 5%, 1/10W, Carbon Film	3198 021 51140
R632	270 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37424
R633	390 ohm, 5%, 1/4W, Carbon Film	3198 011 03910
R634	51 ohm, 5%, 1/4W, Carbon Film.	3198 011 05190
R635	2.4k, 5%, 1/10W, Carbon Film	3198 021 52420
R636	0 ohm, Carbon Film	4835 111 27056
R637	1.5k, 5%, 1/2W, Metal Film	4835 116 57697
R638	15k, 5%, 1/2W, Metal Film.	4835 116 57698
R640	330 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37443
R641	750 ohm, 5%, 1/4W, Carbon Film	4835 111 37121
R642	430 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 54310
R644	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R649	2k, 5%, 1/4W, Carbon Film.	2322 711 61202
R650	330 ohm, 5%, 1/2W, Metal Film.	4835 116 57713
R655	3.6k, 5%, 1/10W, Carbon Film	3198 021 53620
R656	2k, 5%, 1/10W, Carbon Film	4835 111 27091
R658	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R659	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R660	10k, 5%, 1/2W, Metal Film.	4835 116 57686
R661	430 ohm, 5%, 1/4W, Carbon Film	4835 111 37101
R662	100 ohm, 5%, 1/4W, Carbon Film	4835 111 37021
R663	430 ohm, 5%, 1/4W, Carbon Film	4835 111 37101
R664	100 ohm, 5%, 1/4W, Carbon Film	4835 111 37021
R665	430 ohm, 5%, 1/4W, Carbon Film	4835 111 37101
R666	100 ohm, 5%, 1/4W, Carbon Film	4835 111 37021
R667	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R669	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R670	330k, 5%, 1/10W, Carbon Film	3198 021 53340
R671	470 ohm, 5%, 1/4W, Carbon Film	4835 111 37104
R672	470 ohm, 5%, 1/4W, Carbon Film	4835 111 37104
R673	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R674	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R675	2k, 5%, 1/10W, Carbon Film	4835 111 27091
R676	620 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 56210
R677	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R678	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R679	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R681	1k, 5%, 1/10W, Carbon Film	4822 051 10102
S R682	47 ohm, 5%, 1/4W, Carbon Film.	2322 711 61479
R683	8.2k, 5%, 1/4W, Carbon Film.	4835 111 37043
R684	390 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37253
R685	1.8k, 5%, 1/4W, Carbon Film.	4835 111 37065
R686	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R687	620 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 56210
R688	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R689	560 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 27054
R690	1 Meg ohm, 5%, 1/4W, Carbon Film . . .	2322 711 61105
R691	10 ohm, 5%, 1/4W, Carbon Film.	4835 111 37132
R692	470 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37259
R694	13k, 5%, 1/10W, Carbon Film.	4835 111 27059
R695	100 ohm, 5%, 1/4W, Carbon Film	4835 111 37021
R696	390 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37253
R697	390 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37253
R698	51 ohm, 5%, 1/4W, Carbon Film.	3198 011 05190
R699	180k, 5%, 1/10W, Carbon Film	4835 111 37484
R724	12k, 5%, 1/4W, Carbon Film	2322 711 61123
R725	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R726	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R727	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R728	560 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 27054
R729	560 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 27054
R730	1k, 5%, 1/4W, Carbon Film.	4835 111 37022
R731	12k, 5%, 1/10W, Carbon Film.	3198 021 51230
R732	100 ohm, 5%, 1/4W, Carbon Film	4835 111 37021
R733	4.7k,, 5%, 1/8W, Metal Film.	4835 111 37559
R734	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R735	560 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 27054
R736	560 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 27054
R737	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R738	1k, 5%, 1/4W, Carbon Film.	4835 111 37022
R739	1k, 5%, 1/4W, Carbon Film.	4835 111 37022
S R740	18 ohm, 5%, 1/4W, Carbon Film.	2322 711 61189
R759	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R772	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R773	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R774	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R776	5.1k, 2%, 1/8W, Carbon Film.	2322 730 31512
R777	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R778	2k, 5%, 1/10W, Carbon Film	4835 111 27091
R779	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R783	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R785	2.2k, 2%, 1/8W, Carbon Film.	2322 730 31222
R786	15k, 5%, 1/10W, Carbon Film.	4835 111 37458
R787	3k, 5%, 1/10W, Carbon Film	4835 111 37554
R788	1.8k, 5%, 1/10W, Carbon Film	4835 111 37231
R790	10k, 5%, 1/10W, Carbon Film.	4835 111 37216
R791	6.8k, 5%, 1/4W, Carbon Film.	3198 011 06820
R794	200 ohm, 5%, 1/10W, Carbon Film. . . .	3198 021 52010
R795	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R796	220 ohm, 5%, 1/4W, Carbon Film	2322 711 61221
R797	220 ohm, 5%, 1/4W, Carbon Film	2322 711 61221
R798	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R799	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R800	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R801	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R802	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432
R806	1k, 2% 1/8W, Carbon Film	4835 110 67216
R808	390 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37253
R809	1.6k, 5%, 1/10W, Carbon Film	3198 021 51620
R812	4.7k, 5%, 1/10W, Carbon Film	4835 111 27052
R814	4.7 Meg ohm, 5%, 1/10W, Carbon Film. .	3198 021 54750
R821	100 ohm, 5%, 1/4W, Carbon Film	4835 111 37021
R822	2.2k, 5%, 1/10W, Carbon Film	4835 111 37234
R1001	22k, 5%, 1/2W, Metal Film.	4835 116 57706
R1002	220k, 5%, 1/10W, Carbon Film	4835 111 37235
R1003	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R1004	68 ohm, 5%, 1/4W, Carbon Film.	3198 011 06890
R1006	470 ohm, 5%, 1/2W, Metal Film.	4835 116 57723
R1007	1k, 5%, 1/2W, Metal Film	4835 116 57685
R1008	220k, 5%, 1/10W, Carbon Film	4835 111 37235
R1009	470k, 5%, 1/10W, Carbon Film	4835 111 37407
R1012	12k, 5%, 1/10W, Carbon Film.	3198 021 51230
R1015	330 ohm, 5%, 1/4W, Carbon Film	4835 111 37034
S R1016	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R1017	47 ohm, 5%, 1/10W, Carbon Film	4835 111 37262
R1018	560 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 27054
R1020	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57684
R1021	22k, 5%, 1/2W, Metal Film.	4835 116 57706
R1022	22k, 5%, 1/2W, Metal Film.	4835 116 57706
R1023	100 ohm, 5%, 1/10W, Carbon Film. . . .	4835 111 37432

S = Safety Part Be sure to use exact replacement part.

R1027	100 ohm, 5%, 1/10W, Carbon Film.	4835 111 37432
R1030	100 ohm, 5%, 1/10W, Carbon Film.	4835 111 37432
R1032	47k, 5%, 1/10W, Metal Film	4835 111 37445
R1050	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R1051	1k, 5%, 1/10W, Carbon Film	4822 051 10102
R1052	1.5k, 5%, 1/10W, Carbon Film	4835 111 37437
R1053	750 ohm, 5%, 1/4W, Carbon Film	3198 011 07510
D100	Diode BAS216	4835 130 37905
D150	Diode 1N4148	4835 130 37048
D151	Diode 1N4148	4835 130 37048
D300	Diode 1N4148	4835 130 37048
D301	Diode BAS216	4835 130 37905
D302	Diode 1N4148	4835 130 37048
D303	Diode BAS216	4835 130 37905
D305	Diode BAS216	4835 130 37905
D306	Diode BAS216	4835 130 37905
D310	Diode BAS216	4835 130 37905
D311	Diode BAS216	4835 130 37905
D312	Diode BAS216	4835 130 37905
D313	Diode BAS216	4835 130 37905
D320	Diode 1N4148	4835 130 37048
D321	Diode BAS216	4835 130 37905
D322	Diode BAS216	4835 130 37905
D323	Diode BAS216	4835 130 37905
D324	Diode BAS216	4835 130 37905
D325	Diode BAS216	4835 130 37905
D401	Diode 1N4148	4835 130 37048
D600	Diode BAS216	4835 130 37905
D601	Diode BAS216	4835 130 37905
D602	Diode BAS216	4835 130 37905
D603	Diode BAS216	4835 130 37905
D605	Diode BAS216	4835 130 37905
D607	Diode BAS216	4835 130 37905
D608	Diode 1N4148	4835 130 37048
D609	Diode 1N4148	4835 130 37048
D610	Diode 1N4148	4835 130 37048
D611	Diode BAS216	4835 130 37905
D612	Diode BAS216	4835 130 37905
D613	Diode 1N4148	4835 130 37048
D614	Diode 1N4148	4835 130 37048
D615	Diode BAS216	4835 130 37905
D617	Diode 1N4148	4835 130 37048
D618	Diode 1N4148	4835 130 37048
D630	Diode BAS216	4835 130 37905
D700	Diode BAS216	4835 130 37905
IC1	IC, A/V Switch	4835 209 87952
IC106	IC, 10/25W Hi-Fi Power Audio Amp	4835 209 87082
IC107	IC 2-Channel Multi/Demultiplexer	4835 209 17033
IC120	IC, Stereo Decoder & Audio Processor	4835 209 88337
IC200	IC, IF Signal Processor.	4835 209 87757
IC300	IC LC864265A, Tuning Microprocessor.	3135 010 02991
IC304	IC ST24C02B1, EEPROM	4835 209 88326
IC400	IC MC7812CT, 12V Regulator	9334 006 10682
IC401	IC MC7805CT, 5V Regulator.	9334 536 00682
IC600	IC, Y/C/S Processor.	4835 209 88331
IC606	IC, 9V Regulator	4835 209 88009
IC701	IC, Chroma/Luma Switch	4835 209 87089
IC703	IC MC7805CT.	9334 536 00682
IC1001	IC MC44461B.	9322 107 07682
Q3	Transistor, NPN BC847B	4822 130 60511
Q4	Transistor, Buffer	4822 130 60511
Q5	Transistor, Buffer	4822 130 60511
Q7	Transistor, NPN BC847B	4822 130 60511
Q8	Transistor, NPN BC847B	4822 130 60511
Q9	P-Channel JFET, Mono/Stereo Switch	9340 053 20126
Q12	Transistor, Mono/Stereo Inverter	4822 130 60511
Q14	Transistor, NPN BC847B	4822 130 60511
Q16	Transistor, NPN BC847B	4822 130 60511
Q17	Transistor, NPN BC847B	4822 130 60511
Q141	Transistor, Variable Audio Out Switch.	4822 130 60511
Q152	P-Channel JFET, Mute	4835 130 47083
Q153	P-Channel JFET, Mute	4835 130 47083
Q154	P-Channel JFET, Mute	4835 130 47083
Q155	P-Channel JFET, Mute	4835 130 47083
Q156	Transistor, Mute Inverter.	4835 130 47055
Q200	Transistor, Video Amp.	5322 130 60508
Q201	Transistor, Coincidence Detector	5322 130 60508
Q202	Transistor, Coincidence Detector	4822 130 60511
Q203	Transistor, Coincidence Detector	5322 130 60508
Q204	Transistor, Video Buffer	4822 130 60511
Q300	Transistor, Standby LED Switch	4822 130 60511
Q301	Transistor, SDA Amp.	4822 130 60511
Q302	Transistor, SCC Amp.	4822 130 60511
Q303	Transistor, Power LED Switch	4822 130 60511
Q304	Transistor, Fast Blanking Buffer	4822 130 60511
Q305	Transistor, OSD Intensity Buffer	4822 130 60511
Q306	Transistor, Horizontal Amp	4822 130 60511
Q308	Transistor, Vertical Amp	4822 130 60511
Q309	Transistor, PNP Switch	5322 130 60508
Q313	Transistor, SCC Amp.	4822 130 60511
Q314	Transistor, SDA Amp.	4822 130 60511
Q315	Transistor, Reset (Inverted)	5322 130 60508
Q600	Transistor, Chroma Switch.	4822 130 60511
Q601	Transistor, Chroma Delay	5322 130 60508
Q602	Transistor, Chroma Buffer.	5322 130 60508
Q603	Transistor, OSD Intensity Modulator.	5322 130 60508
Q604	Transistor, Red Driver	4822 130 60511
Q605	Transistor, Green Driver	4822 130 60511
Q606	Transistor, Blue Driver.	4822 130 60511
Q607	Transistor, Blue Linearity	5322 130 60508
Q608	Transistor, Blue Linearity	4822 130 60511
Q609	Transistor, 2.2V Regulator	4822 130 60511
Q611	Transistor, Sync Buffer.	5322 130 60508
Q612	Transistor, ABL Buffer	5322 130 60508
Q613	Transistor, ABL Clamp.	5322 130 60508
Q614	Transistor, Vertical Buffer.	4822 130 60511
Q616	Transistor, Green Buffer	5322 130 60508
Q617	Transistor, Green Clipper.	5322 130 60508
Q618	Transistor, Red Buffer	5322 130 60508
Q619	Transistor, Red Clipper.	5322 130 60508
Q620	Transistor, Blue Buffer.	5322 130 60508
Q621	Transistor, Blue Clipper	5322 130 60508
Q623	Transistor, Common Base Allpass.	4822 130 60511
Q624	Transistor, Chroma Buffer.	4822 130 60511
Q625	Transistor, Chroma Buffer.	4822 130 60511
Q626	Transistor, Common Base Allpass.	4822 130 60511
Q627	Transistor, Common EmitterAllpass.	5322 130 60508
Q632	Transistor, Blue Linearity	5322 130 60508
Q635	Transistor, Horizontal Killer.	4822 130 60511
Q703	Transistor, SVHSC Amp.	4822 130 60511
Q704	Transistor, SVHSC Amp.	5322 130 60508
Q705	Transistor, SVHSL Amp.	4822 130 60511
Q715	Transistor, NPN BC847B	4822 130 60511
Q720	Transistor, SVHSL Amp.	5322 130 60508
Q1000	Transistor, PNP T2907.	4835 130 47065
Q1010	Transistor, NPN BC847B	4822 130 60511
Q1020	Transistor, PNP BC85	5322 130 60508
Z100	Zener Diode, 8.2V.	4835 130 37503
Z101	Zener Diode, 8.2V.	4835 130 37503
Z200	Zener Diode, MMSZ5257B	4835 130 37823
Z300	Zener Diode, MMSZ5231B	4835 220 17061
L116	Peaking Coil, 10uH..	4835 157 58198
L200	Peaking Coil, 0.68uH., 5%.	4835 150 57053
L201	Adjustable Coil, 4.5MHz.	4835 157 57113
L202	Adjustable Coil, 45.75MHz.	4835 157 57594
L203	Peaking Coil, 2.2uH., 5%	4835 150 57054
L204	Adjustable Coil, 4.75MHz	4835 157 57485
L205	Peaking Coil, 2.2uH., 5%	4835 150 57054
L206	Peaking Coil, 8.2uH. ,5%	4835 150 57056
L208	Peaking Coil, 12uH, 5%	4835 150 57058
L209	Peaking Coil, 1000uH., 10%	4835 157 57828
L210	Peaking Coil, 47uH., 5%.	4835 150 57055
L211	Peaking Coil, 12uH., 5%.	4835 150 57058
L212	Peaking Coil, 12uH., 10%	4835 157 67075
L300	Peaking Coil, 5.6uH., 5%	2422 535 94322
L301	Peaking Coil, 12uH., 5%.	4835 150 57058
L302	Peaking Coil, 12uH., 5%.	4835 150 57058
L303	Peaking Coil, 6.8uH., 10%.	2422 535 96708
L313	Peaking Coil, 4.7uH., 10%.	4835 157 67057
L373	Peaking Coil, 0.68uH., 20%	4835 157 57596
L374	Peaking Coil, 6.8uH., 10%.	2422 535 96708
L375	Peaking Coil, 0.68uH., 20%	4835 157 57596
L379	Peaking Coil, 0.68uH., 20%	4835 157 57596
L405	Ferrite Bead, 100MHz	4835 157 57995
L600	Peaking Coil, 33uH,. 5%.	4835 157 58113
L601	Peaking Coil, 10uH., 10%	4835 157 67074
L602	Peaking Coil, 10uH., 5%	4835 150 57008
L604	Peaking Coil, 12uH., 5%	4835 157 57831
L605	Peaking Coil, 10uH., 5%	4835 150 57008
L606	Peaking Coil, 3.3uH., 5%.	4835 157 57832
L607	Peaking Coil, 3.9uH., 5%.	4835 157 57893
L608	Peaking Coil, 12uH., 5%.	4835 157 57831
L609	Peaking Coil, 22uH., 5%.	4835 157 67018
L610	Peaking Coil, 15uH., 5%.	4835 157 57057
L611	Peaking Coil, 5.6uH., 5%	4835 157 57833
L612	Peaking Coil, 27uH., 5%.	4835 157 67019
L613	Peaking Coil, 4.7uH., 5%	4835 150 57028
L614	Peaking Coil, 4.7uH., 5%	4835 150 57028
L615	Peaking Coil, 4.7uH., 5%	4835 150 57028
L700	Peaking Coil, 10uH., 10%	4835 157 67074
L707	Peaking Coil, 4.7uH., 5%	4835 150 57077
L1000	Peaking Coil, 1.2uH., 5%	4835 157 67028
L1001	Peaking Coil, 6.8 uH., 5%.	4835 157 57061
L1003	Peaking Coil, 6.8uH., 5%	4835 157 57061
L1004	Peaking Coil, 4.7uH., 5%	4835 150 57028
BKT1	Jack Panel Bracket	3135 011 01900
CLP106	Spring Clip for IC 106	3135 011 02270
MEC4	IF Shield.	3135 011 02360
F100	Fuse, 5 Amp.	4835 253 37021
HS106A	Heatsink for IC 106.	3135 011 02260
HS400	Heatsink for IC 400.	3135 011 02510
HS401	Heatsink for IC 401.	3135 011 03291
HS703	Heatsink for IC 703.	3135 011 02510
J2	Phono Jack Assembly.	4835 265 97388

S = Safety Part Be sure to use exact replacement part.

J3	Jack Assembly.	4835 265 97386
J5	4 Pin Push Terminal.	4835 265 97448
J250	5 Pin Board Connector.	2422 025 15832
J300	7 Pin Board Connector.	2422 025 14674
J302	4 Pin Board Connector.	2422 025 14672
J305	3 Pin Board Connector.	2422 025 14669
J307	8 Pin Board Connector.	2422 025 15025
J402	7 Pin Board Connector.	2422 025 15193
J403	7 Pin Board Connector.	2422 025 14674
J467	7 Pin Board Connector.	2422 025 15024
J601	7 Pin Board Connector.	2422 025 14674
J608	10 Pin Board Connector	2422 025 15196
SHD1T	Shield for Small Signal Board.	3135 011 02251
SHD3T	Shield for Small Signal Board.	3135 011 02251
TUNEXT	Connector for Tuner.	4835 265 97076
UV1236	Tuner, UV1236.	4835 210 47081
Y100	Ceramic Resonator.	4835 122 97102
Y1000	Crystal Resonator, 14.318MHz	4835 242 77059
Y1001	Crystal Resonator, 14.318MHz	4835 242 77059
Y200	Saw Filter	4835 153 97024
Y202	Ceramic Filter, 4.5MHz	4835 154 97168
Y203	Ceramic Filter, 4.5MHz	4835 153 57004
Y301	Peizoelectric Crystal.	4835 242 77283
Y600	Crystal Resonator 3.579MHz	2422 543 00862
Y601	Ceramic Resonator.	4835 153 97004
Y603	Comb Filter.	2422 549 43197

LARGE SIGNAL PANEL

	LARGE SIGNAL PANEL	
S C402	1000pF., 10%, 1kV, Ceramic	4835 122 47373
C403	6800pF., 10%, 250Vac Metal Film.	4835 122 97082
S C406	220pF., 10%, 1kV, Ceramic.	4835 122 47458
S C407	3900pF., 5%, 1kV, Polypropylene.	4835 121 47636
C408	330pF., 10%, 500V, Ceramic	4835 122 47648
C409	3300uF., 35V, Electrolytic	4835 124 47559
C410	0.1uF., 10%, 100V, Polyester	4822 121 41608
C411	0.1uF., 400V, Polyester.	0025 968 41049
C412	330pF., 10%, 500V, Ceramic	4835 122 47648
C413	330pF., 10%, 500V, Ceramic	4835 122 47648
C414	330uF., 25V, Electrolytic.	4835 124 47632
C415	100pF., 5%, 50V, Ceramic	4835 122 87025
C416	4700pF., 2.5%, 63V, Polypropylene.	4835 121 47087
C417	2200pF., 10%, 50V, Ceramic	4835 122 87524
C418	1000pF., 50V, Ceramic.	4835 122 47004
C419	1000pF., 10%, 50V, Ceramic	4835 122 87041
C420	100pF., 5%, 50V, Ceramic	4835 122 87025
C421	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C422	0.1uF., 10%, 100V, Polyester	4822 121 41608
S C423	470uF., 250V, Electrolytic	4835 124 47141
S C424	470uF., 250V, Electrolytic	4835 124 47141
C425	0.1uF., 400V, Polyester.	0025 968 41049
C426	330pF., 10%, 500V, Ceramic	4835 122 47648
C427	3300uF., 25V, Electrolytic	4835 124 47672
C428	0.1uF., 10%, 100V, Polyester	4822 121 41608
C429	1000pF., 10%, 1kV, Ceramic	4835 122 47373
S C430A	22uF., 250V, Electrolytic.	4835 124 47021
C431	1000pF., 10%, 1kV, Ceramic	4835 122 47373
C432	1500uF., 35V, Electrolytic	4835 124 47581
C433	0.1uF., 10%, 100V, Polyester	4822 121 41608
C434	1000pF., 10%, 1kV, Ceramic	4835 122 47373
C435	3300uF., 25V, Electrolytic	4835 124 47575
C436	0.1uF., 10%, 100V, Polyester	4822 121 41608
C437	100pF., 5%, 50V, Ceramic	4835 122 87025
C438	1000pF., 10%, 1kV, Ceramic	4835 122 47373
C439	0.1uF., 10%, 100V, Polyester	4822 121 41608
C440	220pF., 10%, 1kV, Ceramic.	4835 122 47458
C441	6800uF., 16V, Electrolytic	4835 124 47579
C442	470uF., 200V, Electrolytic	4835 124 47097
C443	0.1uF., 250V, Polyester.	4835 121 47278
C444	1000pF., 10%, 1kV, Ceramic	4835 122 47373
C445	1000pF., 10%, 1kV, Ceramic	4835 122 47373
C447	0.1uF., 10%, 100V, Polyester	4822 121 41608
S C449	0.1uF., 10%, 250Vac, Metallic.	4835 122 97067
C450	0.68uF., 10%, 250Vac, Metallic	4835 122 97068
C451	0.47uF., 400V, Polyester	4835 121 47634
C452	1.5uF., 50V, Electrolytic.	4835 124 47568
C453	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C454	47uF., 25V, Electrolytic	4835 124 47708
C455	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C456	100uF., 50V, Electrolytic.	4835 124 47563
C457	1uF., 50V, Electrolytic.	4835 121 47406
C458	4.7uF., 20%, 50V, Electrolytic	4835 124 47072
C459	2200uF., 50V, Electrolytic	4835 124 47574
C468	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C469	330pF., 10%, 500V, Ceramic	4835 122 47648
C470	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C471	1uF., 50V, Electrolytic.	4835 121 47406
C472	0.22uF., 20%, 50V, Ceramic	4835 122 87087
C473	1000pF., 10%, 1kV, Ceramic	4835 122 47373
C474	2200uF., 50V, Electrolytic	4835 124 47574
C475	0.1uF., 10%, 100V, Polyester	4822 121 41608
C476	0.015uF., 400V, Polyester.	4835 121 47203
C477	0.015uF., 400V, Polyester.	4835 121 47203
C478	1000uF., 50V, Electrolytic	4835 124 47573
C479	1000uF., 50V, Electrolytic	4835 124 47573
C480	0.1uF., 10%, 100V, Polyester	4822 121 41608
C481	100uF., 25V, Electrolytic.	4835 124 47501
C482	0.1uF., 50V, Ceramic	4835 122 87375
C483	100uF., 25V, Electrolytic.	4835 124 47501
C499	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C501	0.47uF., 5%, 100V, Polyester	4835 121 47364
C503	680pF., 5%, 50V, Ceramic	4835 122 87037
C511	0.1uF., 10%, 50V, Polyester.	4822 121 42094
C555	1000uF., 35V, Electrolytic	4835 124 47551
C557	100uF., 50V, Electrolytic.	4835 124 47563
C558	150pF., 10%, 500V, Ceramic	2020 557 90711
C559	0.068uF., 10%, 100V, Polyester	4835 121 47042
C560	2.2uF., 50V, Electrolytic.	4835 124 47502
C561	3300uF., 35V, Electrolytic	4835 124 47559
C564	0.047uF., 10%, 100V, Polyester	4835 121 47005
C565	2200pF., 10%, 50V, Ceramic	4835 122 87083
C567	0.022uF., 10%, 50V, Ceramic.	4835 122 87064
C569	0.1uF., 50V, Ceramic	4835 122 87375
C570	0.1uF., 50V, Ceramic	4835 122 87375
C571	0.1uF., 50V, Ceramic	4835 122 87375
C572	100uF., 50V, Electrolytic.	4835 124 47563
C573	2200pF., 10%, 50V, Ceramic	4835 122 87524
C580	100pF., 5%, 50V, Ceramic	4835 122 87025
C584	50V, 0.47uF., Polyester.	3198 014 04740
C585	3.3uF., 5%, 50V, Polyester	4835 121 47516
C586	0.022uF., 10%, 100V, Polyester	4835 121 47627
C587	680pF., 5%, 50V, Ceramic	4835 122 87019
C588	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C800	1uF., 50V, Electrolytic.	4835 121 47406
C801	0.1uF., 50V, Ceramic	4835 122 87375
C805	0.1uF., 250V, Polyester.	4835 121 47629
C806	1000pF., 500V, Ceramic	4835 122 47384
C807	0.1uF., 50V, Ceramic	4835 122 87375
C808	680pF., 10%, 500V, Ceramic	4835 122 47035
C809	0.1uF., 250V, Polyester.	4835 121 47278
C810	470uF., 200V, Electrolytic	4835 124 47673
S C811	330pF., 20%, 2kV, Ceramic.	4835 122 47058
C814	47uF., 315V, Electrolytic.	4835 124 47482
C815	1000pF., 500V, Ceramic	4835 122 47384
C817	0.011uF., 1.6kV, Polyprop.	4835 121 47612
C818	560pF., 10%, 500V, Ceramic	4835 122 47212
C819	0.039uF., 630V, Polypropylene.	4835 121 47638
C820	4.7uF., 100V, Polyester.	4835 121 47633
C822	0.43uF., 250V, Polypropylene	4835 121 47607
C824	1000pF., 500V, Ceramic	4835 122 47384
C826	100uF., 50V, Electrolytic.	4835 124 47563
C900	220uF., 16V, Electrolytic.	4835 124 47494
C901	3300pF., 5%, 50V, Ceramic.	4835 122 87447
C902	680pF., 5%, 50V, Ceramic	3198 016 06810
C903	1uF., 50V, Electrolytic.	4835 121 47406
C904	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C905	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C906	0.01uF., 10%, 50V, Ceramic	4835 122 87042
C907	0.015uF., 10%, 50V, Ceramic.	4835 122 87063
C908	15pF., 10%, 500V, Ceramic.	4835 122 47455
C909	330pF., 10%, 500V, Ceramic	4835 122 47648
C910	0.047uF., 10%, 100V, Polyester	4835 121 47081
C911	4.7uF., 50V, Electrolytic.	4835 124 47506
S C913	1000uF., 16V, Electrolytic	4835 124 47699
C914	470uF., 200V, Electrolytic	4835 124 47673
S C915	6800pF., 1.6kV, Polypropylene.	4835 121 47637
S C916	6800pF., 10%, 50V, Polyester	2020 300 90571
C917	0.1uF., 250V, Polyester.	4835 121 47278
C918	2.2uF., 50V, Electrolytic.	4835 124 47502
C919	0.12uF., 100V, Polyester	4835 121 47425
C920	4.7uF., 50V, Electrolytic.	4835 124 47506
C921	100uF., 25V, Electrolytic.	4835 124 47501
C922	470uF., 25V, Electrolytic.	4835 121 47405
C923	1000pF., 10%, 50V, Ceramic	4835 122 87041
S C924	820pF., 10%, 2kV, Ceramic.	4835 122 57004
C927	1uF., 50V, Electrolytic.	4835 121 47406
C928	0.33uF., 50V, Electrolytic	4835 124 47525
C929	330pF., 10%, 500V, Ceramic	4835 122 47648
C930	1uF., 100V, Electrolytic	4835 124 47485
C931	0.47uF., 5%, 100V, Polyester	4835 121 47364
C932	0.1uF., 10%, 50V, Ceramic.	4835 122 87061
C933	330pF., 10%, 500V, Ceramic	4835 122 47033
C2804	100uF., 50V, Electrolytic.	4835 124 47563
C2805	10uF., 50V, Electrolytic	4835 124 47499
C2836	1000pF., 10%, 1kV, Ceramic	4835 122 47373
C2837	10uF., 50V, Electrolytic	4835 124 47499
C2838	1000pF., 10%, 1kV, Ceramic	4835 122 47373
C2839	0.01uF., 20%, 2kV, Ceramic	4835 122 57002
BRXX	0 ohm, "Chip" Jumper	4835 111 37019
S R401	100k, 5%, 2W, Metal Oxide.	4835 116 67264
S R402	2k, 5%, 1/2W, Metal Film	4835 116 57703
S R404	100 ohm, 5%, 10W, Wire Wound	4835 112 37032
S R405	4.7 ohm, 1/2W, Metal Film.	4835 116 57009
R406	100 ohm, 5%, 1/4W, Carbon.	4835 110 57247

S = Safety Part Be sure to use exact replacement part.

S R407	0.1 ohm, 5%, 1W, Metal Film.	4835 116 67179
S R408	0.12 ohm, 5%, 1W, Metal Film	4835 116 67121
S R409	10 ohm, 5%, 20W, Wire Wound.	4835 112 47012
R411	10 ohm, 5%, 1/2W, Metal Film	4835 116 67131
R412	510 ohm, 5%, 1/4W, Carbon.	4835 110 57179
S R413	2k, 5%, 1/4W, Metal Film	4835 111 37029
S R414	0.91 ohm, 5%, 1/2W, Metal Film	4835 116 57053
S R415	100k, 5%, 2W, Metal Oxide.	4835 116 67264
S R416	15 ohm, 5%, 1/3W, Metal Film	4835 116 57064
R417	10k, 5%, 1/8W, Metal Film.	4835 111 37556
R418	5.76k, 1%, 1/8W, Metal Film.	4835 111 27064
R419	22k, 5%, 1/8W, Metal Film.	4835 111 37558
R420	1.6k, 5%, 1/2W, Metal Film	2322 187 53162
R421	390 ohm, 5%, 1/4W, Metal Film.	4835 111 37095
R422	100k, 5%, 1/4W, Metal Film	4835 111 37024
R423	3.92k, 1%, 1/8W, Metal Film.	4835 111 27063
R424	18.2k, 1%, 1/8W, Metal Film.	4835 116 57637
R425	2.4k, 5%, 1/4W, Metal Film	2322 711 61242
R426	100k, 1/2W, Metal Film	4835 116 57687
R427	27k, 1/10W, Metal Film	4835 111 37442
R428	24k, 5%, 1/10W, Metal Film	4835 111 37241
R429	68k, 1/10W, Metal Film	4835 111 37273
S R430	1k, 5%, 3W, Metal Film	4835 116 57242
R431	10k, 1/2W, Metal Film.	4835 116 57686
R433	4.7k, 1/2W, Metal Film	4835 116 57724
R438	33k, 1/10W, Metal Film	4835 111 37248
R439	10k, 1/10W, Metal Film	4835 111 37216
R440	10k, 1/10W, Metal Film	4835 111 37216
R442	33k, 1/10W, Metal Film	4835 111 37248
R443	100k, 1/10W, Metal Film.	4835 111 37434
S R444	100k, 5%, 1W, Metal Oxide.	4835 116 67267
R445	5.1k, 5%, 1/10W, Metal Film.	4835 111 27086
R446	10k, 1/2W, Metal Film.	4835 116 57686
S R447	100k, 5%, 1W, Metal Oxide.	4835 116 67267
R448	10k, 5%, 1/8W, Metal Film.	4835 111 37556
S R449	10 ohm, 1/2W, Metal Film	4835 116 57097
R450	11.5k, 1%, 1/8W, Metal Film.	4835 116 57636
R451	1.82k, 1%, 1/10W, Metal Film	4835 111 27065
R452	3.32k, 1%, 1/8W, Metal Film.	4835 111 27062
S R453	102k, 1%, 1/8W, Metal Film	4835 116 57389
R454	2.67k, 1%, 1/8W, Metal Film.	4835 111 27061
R455	470 ohm, Control Adjust.	4835 100 17039
R456	510k, 5%, 1/2W, Metal Film	2322 187 53514
R457	100 ohm, 1/2W, Metal Film.	4835 116 57684
R458	330 ohm, 1/2W, Metal Film.	4835 116 57713
S R466	0.12 ohm, 5%, 1W, Metal Film	4835 116 67121
R469	1.5 ohm, 5%, 1/2W, Metal Film.	4835 116 57755
S R472	1.2k, 5%, 2W, Metal Film	4835 116 57357
S R475	15 ohm, 5%, 2W, Metal Oxide.	4835 116 67263
S R476	100k, 5%, 2W, Metal Oxide.	2322 194 73104
R478	47k, 5%, 1/2W, Metal Film.	4835 111 67001
R483	27 ohm, 5%, 1/4W, Carbon Film.	4835 110 57174
S R484	2k, 5%, 1W, Metal Film	4835 116 67154
S R485	2k, 5%, 1W, Metal Film	4835 116 67154
R486	1k, 5%, 1/4W, Carbon Film.	4835 110 57018
R500	4.7k, 5%, 1/8W, Metal Film	4835 111 37559
R501	10k, 5%, 1/8W, Metal Film.	4835 111 37556
R503	120k, 5%, 1/4W, Metal Film	4835 111 37055
R504	120k, 5%, 1/2W, Metal Film	4835 116 57693
R505	220 ohm, 5%, 1/4W, Metal Film.	4835 111 37071
R506	120k, 5%, 1/4W, Metal Film	4835 111 37055
R507	62k, 5%, 1/4W, Metal Film.	4835 111 37356
R508	4.3k, 2%, 1/4W, Metal Film	4835 111 37498
R510	470k, 1/10W, Metal Film.	4835 111 37407
R511	47k, 5%, 1/10W, Metal Film	4835 111 37445
R512	10k, 5%, 1/8W, Metal Film.	4835 111 37556
R513	39k, 5%, 1/4W, Metal Film.	4835 111 37097
R514	10k, 5%, 1/8W, Metal Film.	4835 111 37556
R550	47k, 5%, 1/10W, Metal Film	4835 111 37445
R554	1k, 5%, 1/10W, Metal Film.	4822 051 10102
S R555	1 ohm, 5%, 1W, Metal Oxide	4835 116 67268
R558	100 ohm, 5%, 1/3W, Metal Film.	4835 116 87002
S R559	1k, 5%, 1W, Metal Oxide.	4835 116 67266
S R560	220 ohm, 1W, Metal Oxide	4835 116 57603
R561	27k, 5%, 1/4W, Metal Film.	4835 111 37033
R562	24k, 5%, 1/4W, Metal Film.	4835 111 37081
S R564	1 ohm, 5%, 3W, Wire Wound.	2122 251 01385
R565	1k, 5%, 1/4W, Metal Film	4835 111 37022
R570	470 ohm, 1/2W, Metal Film.	4835 116 57723
R571	1k, 1/2W, Metal Film	4835 116 57685
S R572	1k, 5%, 1/10W, Metal Film.	4822 051 10102
S R573	750 ohm, 5%, 1W, Metal Film.	4835 116 67016
R578	470 ohm, 5%, 1/4W, Metal Film.	4835 111 37104
R581	2.2K, 5%, 1/2W, Metal Film	4835 110 47006
R582	91k, 5%, 1/2W, Metal Film.	2322 187 53913
R583	18k, 5%, 1/4W, Metal Film.	4835 111 37066
R585	20k, 5%, 1/10W, Metal Film	4835 111 37313
R586	10k, 1/10W, Metal Film	4835 111 37216
R587	12k, 5%, 1/4W, Metal Film.	4835 111 37025
R588	47 ohm, 5%, 1/4W, Metal Film	4835 111 37107
R589	47 ohm, 5%, 1/4W, Metal Film	4835 111 37107
R800	470 ohm, 5%, 1/4W, Metal Film.	4835 111 37104
R801	47k, 5%, 1/4W, Metal Film.	4835 111 37038
R802	68k, 5%, 1/4W, Metal Film.	4835 111 37118
R803	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57552
R805	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57552
R806	1k, 20%, 1/2W, Carbon Comp..	4835 110 47215
R807	300 ohm, 5%, 1/4W, Metal Film.	4835 111 37085
R808	2.2k, 5%, 1/2W, Carbon Film.	4835 110 47083
R809	270 ohm, 1/10W, Metal Film	4835 111 37424
S R810	1.5k, 5%, 5W, Metal Film	4835 116 67218
S R811	1.5k, 5%, 5W, Metal Film	4835 116 67218
R812	68k, 5%, 1/4W, Metal Film.	4835 111 37118
S R813	1.5 ohm, 5%, 2W, Metal Film.	4835 116 67217
R814	33 ohm, 5%, 1/2W, Metal Film	4835 116 57366
R815	0.27 ohm, 5%, 1/2W, Metal Film	4835 116 57112
S R816	0.56 ohm, 5%, 1/2W, Metal Film	4835 116 67006
S R817	470 ohm, 5%, 1/4W, Metal Film.	4835 111 37104
R821	560 ohm, 5%, 1/2W, Carbon.	4835 111 57002
R822	270 ohm, 5%, 1/2W, Carbon.	4835 110 47113
R823	68k, 5%, 1/4W, Metal Film.	4835 111 37118
R824	270 ohm, 5%, 1/2W, Carbon.	4835 110 47113
S R825	1 ohm, 5%, 1/2W, Metal Film.	4835 116 57441
R826	270 ohm, 5%, 1/2W, Carbon.	4835 110 47113
R827	68k, 5%, 1/4W, Metal Film.	4835 111 37118
R828	68k, 5%, 1/4W, Metal Film.	4835 111 37118
R829	15 ohm, 1/2W, Metal Film	4835 116 57699
S R830	510 ohm, 5%, 1W, Metal Film.	4835 116 67124
R840	1M., 5%, 1/2W, Metal Film.	4835 116 57764
S R900	240 ohm, 5%, 1W, Metal Film.	4835 116 57355
R901	10k, Control Adjust.	4835 100 17036
R902	24k, 5%, 1/4W, Metal Film.	4835 111 37081
R904	3k, 5%, 1/4W, Metal Film	4835 111 37086
R905	120k, 5%, 1/4W, Metal Film	4835 111 37055
R906	1.5k, 5%, 1/4W, Metal Film	4835 111 37026
R907	5.6k, 5%, 1/4W, Metal Film	4835 111 37112
R908	1.5k, 1/10W, Metal Film.	4835 111 37437
R910	10k, 5%, 1/8W, Metal Film.	4835 111 37556
R911	30 ohm, 5%, 1/4W, Metal Film	4835 111 37354
R912	10k, 5%, 1/8W, Metal Film.	4835 111 37556
R913	4.7k, 1/2W, Metal Film	4835 116 57724
R914	47k, 5%, 1/4W, Metal Film.	4835 111 37038
R915	820 ohm, 5%, 1/4W, Metal Film.	4835 111 37123
R916	1k, 5%, 1/4W, Metal Film	4835 111 37022
R917	1k, 5%, 1/4W, Metal Film	4835 111 37022
R918	2k, 5%, 1/2W, Metal Film	4835 116 57703
R919	3.6k, 5%, 1/4W, Metal Film	4835 111 37092
R920	1k, 5%, 1/4W, Metal Film	4835 111 37022
R921	18k, 5%, 1/4W, Metal Film.	4835 111 37066
R922	1.5k, 5%, 1/4W, Metal Film	4835 111 37026
R923	15k, 1/2W, Metal Film.	4835 116 57698
R924	360 ohm, 5%, 1/4W, Metal Film.	4835 111 37036
R926	100 ohm, 5%, 1/4W, Metal Film.	4835 111 37021
R927	10k, 5%, 1/8W, Metal Film.	4835 111 37556
R928	2.2k, 2%, 1/8W, Metal Film	2322 730 31222
R930	10k, 5%, 1/2W, Carbon Film	4835 110 47173
R931	1 Meg, 5%, 1/4W, Metal Film.	4835 111 37047
R932	5.6k, 1/10W, Metal Film.	4835 111 37376
R933	1 Meg, 5%, 1/4W, Metal Film.	4835 111 37047
S R934	0.33 ohm, 5%, 1/2W, Metal Film	4835 116 57114
S R937	33k, 1W, Metal Oxide	4835 116 67253
S R938	30 ohm, 5%, 10W, Wire Wound.	4835 112 37033
R939	8060 ohm, 1%, 1/8W, Metal.	4835 116 57597
S R940	11.5k, 1%, 0.6W, Metal Film.	4835 116 57612
R941	110k, 5%, 1/2W, Carbon Comp.	4835 110 47193
S R942	510k, 5%, 1/8W, Metal Film	4835 111 37266
R943	2.2k, Control Adjust	4835 100 17047
S R944	240 ohm, 2%, 1/8W, Carbon.	4835 110 67204
R945	680k, 5%, 1/4W, Metal Film	4835 111 37119
R946	33k, 2%, 1/4W, Carbon Film	4835 110 57321
R947	820 ohm, 5%, 1/4W, Metal Film.	4835 111 37123
R948	1k, 5%, 1/10W, Metal Film.	4822 051 10102
R949	620 ohm, 5%, 1/4W, Metal Film.	4835 111 37114
R951	10k, 1/2W, Metal Film.	4835 116 57686
R952	10 ohm, 5%, 1/4W, Metal Film	4835 111 37132
R954	39k, 5%, 1/4W, Metal Film.	4835 111 37097
R955	33k, 5%, 1/2W, Carbon Film	4835 110 47172
R956	100 ohm, 1/2W, Metal Film.	4835 116 57684
R957	1.5k, 5%, 1/4W, Metal Film	4835 111 37026
S R958	39 ohm, 5%, 2W, Metal Oxide.	4835 110 57065
R959	1k, 20%, 1/2W, Carbon Comp..	4835 110 47215
R960	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57552
S R961	68 ohm, 5%, 1/3W, Metal Film	4835 116 57751
R964	10 ohm, 20%, 1/2W, Carbon.	4835 110 47164
R965	1 Meg, 5%, 1/4W, Metal Film.	4835 111 37047
R967	470 ohm, 5%, 1/4W, Metal Film.	4835 111 37104
R968	20k, 5%, 1/4W, Metal Film.	4835 111 37069
R969	47K, 5%, 1/10W, Metal Film	4835 111 37445
R970	10k, 1/10W, Metal Film	4835 111 37216
R971	100k, 1/10W, Metal Film.	4835 111 37434
R975	100 ohm, 5%, 1/2W, Metal Film.	4835 116 57552
S R980	4.7k, 5%, 10W, Metal Oxide	4835 116 67272
R2810	1.1k, 5%, 1/4W, Metal Film	4835 111 37051
R2812	110k, 5%, 1/4W, Metal Film	4835 111 37052

S = Safety Part Be sure to use exact replacement part.

	R2834	0.27 ohm, 5%, 1/2W, Metal Film	4835 116 57112
	R2835	3k, 5%, 1/2W, Metal Film	4835 116 57757
	R2836	270 ohm, 1/2W, Metal Film.	4835 116 57709
	R2837	12k, 5%, 1/4W, Metal Film.	4835 111 37025
	R2838	2.4k, 5%, 1/4W, Metal.	2322 711 61242
S	R2839	300k, 5%, 3W, Metal Film	2322 195 73304
	D402	Diode BYV95C	4835 130 37052
	D403	Diode, Silicon MUR120.	4835 130 37674
	D404	Diode BYV95C	4835 130 37052
	D405	Diode BAX18.	4835 130 37933
	D406	Diode GBU6J.	4835 130 37931
	D407	Diode, Silicon MUR120.	4835 130 37674
	D409	Diode BAS216	4835 130 37905
	D416	Diode, Silicon	4835 130 37663
	D417	Diode MUR460	4835 130 37932
	D418	Diode, Silicon MUR460.	4835 130 37488
	D419	Diode, Silicon	4835 130 37491
	D420	Diode BAX18.	4835 130 37933
	D431	Diode BAX18.	4835 130 37933
	D432	Diode 1N4150	4835 130 37934
	D433	Diode, Silicon	4835 130 37663
	D434	Diode, Silicon	4835 130 37663
	D501	Diode BAS216	4835 130 37905
	D502	Diode BAS216	4835 130 37905
	D503	Diode BAS216	4835 130 37905
	D504	Diode, Silicon BYD77D.	4835 130 37497
	D505	Diode BAS216	4835 130 37905
	D550	Diode BYV95C	4835 130 37052
	D551	Diode BAS216	4835 130 37905
	D571	Diode BAS216	4835 130 37905
	D801	Diode BYD33J	4835 130 37094
	D802	Diode BYV95C	4835 130 37052
	D806	Diode BY228.	4835 130 37166
	D808	Diode BYW95C	4835 130 37059
	D900	Diode BAS216	4835 130 37905
	D901	Diode 1N4148	4835 130 37048
	D902	Diode BY328.	4835 130 37938
	D904	Diode BAX18.	4835 130 37933
	D905	Diode BYD33J	4835 130 37094
	D906	Diode, Silicon MUR140.	4835 130 37102
	D907	Diode, Silicon MUR140.	4835 130 37102
	D908	Diode BYV95C	4835 130 37052
	D909	Diode BAV103	4835 130 37937
	D910	Diode BYW95C	4835 130 37059
	D911	Diode BAS216	4835 130 37905
	D2830	Diode BYD33M	4835 130 37012
S	IC400	IC LM393N, Dual Comparator	4835 209 87081
	IC401	IC, 6126640002	4835 209 87834
	IC402	IC, 6127710001	4835 209 87712
S	IC403	OPT CP CNX83A, Optoisolator.	4835 209 88555
S	IC405	OPT CP CNW136.300.	4835 209 88561
S	IC406	OPT CP CNX83A.	4835 209 88555
	IC408	IC MC7805CT, Vertical Deflection	4835 209 88535
	IC550	IC TDA3654Q/N3	4835 209 17162
	IC551	IC TA8859CP, IIC Defl. Processor	4835 209 88565
	IC552	IC MC7812CT, 12V Regulator	4835 209 88554
	IC900	IC MC1391P, Horiz. Processor	9332 898 70682
	IC901	IC, 6126729002	4835 209 88011
	IC902	IC, 6128270001	4835 209 87838
	Q2830	Transistor, NPN.	4835 130 47893
	C914	Transistor, BU2508DF	4835 532 47018
S	Q400	Transistor, BC847B	4822 130 60511
	Q401	N-Channel Power MOSFET	4835 130 47888
	Q402	Transistor, Standby Regulator.	4835 130 47885
S	Q403	Transistor, BC847B	4822 130 60511
	Q404	Transistor, BC85	5322 130 60508
	Q442	Transistor, BU2508DF	4835 532 47018
	Q500	Transistor, BC85	5322 130 60508
	Q501	Transistor, BC85 H&V Dfl Fail-safe	5322 130 60508
	Q502	Transistor, BC847B	4822 130 60511
	Q503	Transistor, BC847B	4822 130 60511
	Q550	Transistor, PNP.	4835 130 47084
	Q551	Transistor, BC847B	4822 130 60511
	Q800	Transistor, BC847B	4822 130 60511
	Q801	Transistor, 2SC2482, Horiz. Driver	4835 130 47073
	Q802	Transistor, 2SD2539.	4835 130 48074
	Q803	Transistor, PNP, Hor. Pre-Driver	4835 130 47065
	Q900	Transistor, BC847B, Sync Pls. Inv.	4822 130 60511
	Q901	Transistor, BC85	5322 130 60508
	Q902	Transistor, SPS9397-1, Shutdown.	4835 130 47091
	Q903	Transistor, BC85, Error Sig. Inv.	5322 130 60508
	Q904	Transistor, BC85, Soft Start	5322 130 60508
	Q906	Transistor, 2SD2539, HVOT.	4835 130 48074
	Q907	Transistor, NPN, Beam Limiter.	4835 130 47889
	Q908	Transistor, PNP Av Bm Cur. Lim.	4835 130 47891
	Z400	Zener Diode, BZX79B10.	4835 130 37935
	Z500	Zener Diode, 10V	4835 130 37739
	Z501	Diode BZX79-B18.	4835 130 37936
	Z503	Zener Diode, P6KE62A	4835 130 37547
	Z901	Zener Diode, 6.2V.	4835 130 37751
	L401	Peaking Coil, 2.2uH. 10%	4835 157 57051
	L405	Peaking Coil, 2.2uH. 10%	4835 157 57051
	L407	Ferrite Bead	4835 526 17001
	L408	Suppression Coil, 10uH.	4835 152 27002
S	L409	Peaking Coil, 2.2uH.	4835 150 57054
	L410	Suppression Coil, 18uH.	4835 150 57051
	L412	Ferrite Bead	4835 526 17001
	L413	Suppression Coil, 10uH.	4835 152 27002
	L415	Suppression Coil, 1.8uH.	4835 152 27029
	L416	Ferrite Bead	4835 526 17001
	L420	Ferrite Bead	4835 526 17001
S	L421	Line Input Choke	4835 152 27028
	L422	Suppression Coil, 10uH.	4835 152 27002
	L423	Suppression Coil, 10uH.	4835 152 27002
	L424	Suppression Coil, 10uH.	4835 152 27002
	L425	Suppression Coil, 10uH.	4835 152 27002
	L426	Suppression Coil, 42uH.	4835 157 57063
	L427	Ferrite Bead	4835 526 17001
	L428	Suppression Coil, 42uH.	4835 157 57063
	L429	Ferrite Bead	4835 526 17001
	L430	Ferrite Bead	4835 526 17001
	L432	Suppression Coil, 10uH.	4835 152 27002
	L435	Suppression Coil, 10uH.	4835 152 27002
	L440	Suppression Coil, 10uH.	4835 152 27002
	L467	Line Choke	4835 157 57077
	L550	Suppression Coil, 10uH.	4835 152 27002
	L803	Coil, Choke.	3121 218 31110
	L804	Linear Coil.	0036 202 80026
	L805	Ferrite Bead	4835 526 17003
	L902	Coil, 22uH., 10%	4835 150 57052
	L903	Suppression Coil, 3.6uH.	4835 152 27001
	L905	Suppression Coil, 5.6uH., 10%.	4835 152 27038
S	T401	Transformer, Switch Mode	4835 148 87339
S	T402	Transformer, Power	4835 148 87345
S	T800	Transformer, Horiz. Driver	4835 142 47021
S	T801	Transformer, Scan Power.	4835 148 87318
S	T802	Transformer, Dynamic Focus	4835 142 47025
S	T900	Flyback Transformer.	3128 138 20280
S	T901	Transformer, Horiz. Driver	4835 142 47022
S	F401	Fuse, 5A	4835 253 37022
S	F402	Fuse, 5A	4835 253 37021
S	F408	Fuse, 5A.	4835 253 37021
S	F409	Fuse, 5A	4835 253 37021
	FB910	Ferrite Bead	4835 526 17002
	HS401	MM Heatsink.	3135 011 00620
	HS401	Transistor, BU2508DF	4835 532 47018
	HS406	Heatsink, Vert.	0073 531 90006
	HS408	Heatsink, Transistor	0073 166 50008
	HS416	Heatsink, Transistor	0073 166 50008
	HS419	Heatsink, Diode.	0073 562 10006
	HS433	Heatsink, Transistor	0073 166 50008
	HS434	Heatsink, Transistor	0073 166 50008
	HS550	Heatsink	0073 601 50001
	HS802	MM Heatsink LS BD.	3135 011 00550
	HS802	Transistor, BU2508DF	4835 532 47018
	HS902	Heatsink	0073 525 60011
	HS906	Heatsink, Horiz.	0073 510 30012
	J401	4 Pin Connector, Yellow.	0018 223 60004
	J402	7 Pin Connector, Yellow.	0018 223 60007
	J403	7 Pin Board Connector.	2422 025 14674
	J408	Contact Pin.	3135 010 00470
	J467	7 Pin Connector.	2422 025 15024
	J468	9 Pin Connector, Green	0018 223 80009
	J500	Contact Pin.	3135 010 00470
	J501	Contact Pin.	3135 010 00470
	J502	Contact Pin.	3135 010 00470
	J511	Contact Pin.	3135 010 00470
	J540	Contact Pin.	3135 010 00470
	J601	7 Pin Board Connector.	2422 025 14674
	Q401	Spring Clip f/Q401	4835 256 97316
	Q802	Spring Clip f/Q802	4835 256 97316
	Q906	Spring Clip f/Q906	4835 256 97316
S	SA401	Resistor, Surge Absorber	4835 116 67143

STEREO SPREAD MODULE

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00ATC669 CUSTOMER CONTROL ASSEMBLY

		00ATC669 CUSTOMER CONTROL ASSEMBLY	
		00ARR023 IR Receiver Panel	4835 219 77785
		00ASW129 Switch Assembly	4835 219 77786

ATC669, ATC670 & ATC671 CUST. CNTRL. ASSY

		ATC669, ATC670 & ATC671 CUST. CNTRL. AS SY	
		Crystal Assembly	3135 017 01951

00ARR023, 00ARR024 & 00A10699 IR RECEIVER PANEL

		00ARR023, 00ARR024 & 00A10699 IR RECEIV ER PANEL	
	D301	Green LED.	4835 130 97095
	D302	Red LED.	4835 130 97096
	IR300	IR Receiver.	4835 219 67061
	J302	5 Pin Board Connector.	2422 038 00176

S = Safety Part Be sure to use exact replacement part.

J305	3 Pin Board Connector.	2422 038 00175

00ASW129, 00ASW130 & 00ASW131 SWITCH ASSEMBLY

	00ASW129, 00ASW130 & 00ASW131 SWITCH AS SEMBLY	
J300	7 Pin Board Connector.	2422 025 14674
	Keypad	3135 013 02470

00706087 0001, 0002 OPTICAL ASSEMBLY

	00706087 0001, 0002 OPTICAL ASSEMBLY		
S	Deflection Yoke.	2422 549 43801
	Focus Lead	3135 010 00730
S	Focus/Screen Control..	2322 460 90514
S	HV Anode Lead (3 used)	4835 321 27397
B	Compression Spring (4 used).	3135 011 00610
S E	CRT 180DLB22 (Blue).	4835 310 57408
S E	CRT 180DLB22 (Green)	4835 310 57411
S E	CRT 180DLB22 (Red) (HU).	4835 310 57409
H	Seal, CRT.	3135 013 02321
I	Coolant (Enough to do 3 CRTs).	3135 010 02040
K	Fill Plug.	4835 432 17791
L	Fill Plug Seal	4835 290 87147
M	Diaphragm Cover.	4835 432 17736
O	Expansion Diaphragm.	3135 013 01060
P	Coupler Red & Blue 46" (0001).	4835 290 87153
P	Coupler Red & Blue 54" (0002).	4835 290 87155
P	Coupler, Green	4835 290 87152
R	O-Ring Seal (Lens to Coupler).	4835 290 87141
S	Lens, C-Element, Blue & Red.	4835 381 47016
S	Lens, C-Element, Green	4835 381 47019
W	Lens, Main, Blue	4835 381 47017
W	Lens, Main, Red & Green.	4835 381 47022